

THE  
VEGETABLE SYSTEM.

O R,  
The INTERNAL STRUCTURE  
AND  
The LIFE of HERBS;

Their PARTS, and NOURISHMENT, Explained;

THEIR  
CLASSES, ORDERS, GENERA, and SPECIES,  
Ascertained, and Described;

In a METHOD altogether NEW:

COMPREHENDING  
AN ARTIFICIAL INDEX,

AND  
A NATURAL SYSTEM.

With FIGURES of all the PLANTS; Designed and Engraved by the AUTHOR.

The Whole from NATURE only.

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By Sir JOHN HILL.

MEMBER OF THE IMPERIAL ACADEMY, &c. &c.

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VOL. XXVI. and Last.

Containing PLANTS without Petals; having only Cups or Chives and  
Pointals to their Flowers.

And a GENERAL INDEX to all the VOLUMES.

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LONDON:

Printed for the AUTHOR in St. James's-Street:

And Sold by T. TRUEMAN, N° 394, in the Strand.

M.DCC.LXXV.







# H E R B S

## S E R I E S VII.

With Cups, but no Petals.

## C L A S S XXVIII.

## O R D E R IV.

Having the Flowers conspicuous, separate, and perfect; but incomplete, wanting the Petals: and having a Cup of one Leaf cut into three segments.

## G E N U S I.

## N E T T L E W E E D.

## A X Y R I S.

Plate 1.

Character of the Genus.

There are male and female FLOWERS on the same plant.

In the male

The CUP is deeply cut into three segments, which spread wide open.

In the female

The CUP is of five distinct oval leaves, two smaller than the others, and it converges at the top.

The SEED is oblong, flattened, and nip'd, and stands in the Cup: the two small leaves being faded.

Plate 1. *a b c d.*

### 1. A M A R A N T H I N E N E T T L E W E E D.

Plate 1. Fig. 1.

Character of the Species.

*Axyris Amaranthoides.*

The Leaves are oval; with starry stinging hairs: the Flowers stand in single spikes: the Stalk is upright.

Fig. 1. *a b c d.*

THIS is an Annual, native of Tartary; a very singular Plant, of a foot or more in height, flowering in July. The Stalk is hard and dry, and of a brownish hue, but greener toward the top: the Leaves are of a very fine green; and their brown starry hairs stand beautifully upon them: the Flowers are of a greenish white, tinged with a faint yellow.

Van Royen called some of these plants Nettles. I suppose he had only seen imperfect specimens.

### 2. M O N G R E L L N E T T L E W E E D.

Plate 1. Fig. 2.

Character of the Species.

*Axyris Hybrida.*

The Leaves are oval: the Stalk is upright: the Flowers stand in cluster'd spikes.

Fig. 2. *a b c d.*

THIS is an Annual, native of Siberia; an upright Plant, of ten inches high: flowering in August. The Stalk is of a ruddy brown: the Leaves are of a blue green; a pleasing colour: the Flowers are greenish white, with a little yellow in some places.

### 3. P R O S T R A T E N E T T L E W E E D.

Plate 1. Fig. 3.

Character of the Species.

*Axyris Prostrata.*

The Leaves are oval, the large end outward: the Stalk is weak and branch'd: the Flowers grow in single heads.

Fig. 3. *a b c.*

THIS is an Annual, native also of Siberia; an obscure little Plant: it scarce rises to five inches high; and flowers in September. The Stalk is of a dusky olive green: the Leaves are of a fine bright green: the Flowers are white, but green on the back.

G E N U S



## G E N U S II.

## T R A G I N Y.

## T R A G I A.

Plate 2.

## Character of the Genus.

There are male and female Flowers on the same plant.

In the male

The CUP is cut into three oval Segments, which spread out flat.

In the female

The CUP is deep cut into five oblong pointed segments.

The CAPSULE is oblong, composed of three parts, united together. It has three Cells, and in each, one round Seed.

Plate 2. *abcde*.

## 1. M E R C U R I N E T R A G I N Y.

Plate 2. Fig. 1.

## Character of the Species.

Tragia Mercurialis.

The Leaves are oval and dented; and the Stalk is weak. Fig. 1. *ab*.

THIS is an Annual, native of the East Indies; a weak Plant, of a foot and a half high, flowering in August. The Stalk is of a light green, but brown toward the base: the Leaves are of a very fine strong green: the Flowers are dusky, and the Capsules are dark brown.

## 2. S T I N G I N G T R A G I N Y.

Plate 2. Fig. 2.

## Character of the Species.

Tragia Urens.

The Leaves are lanced; they have a few dents; and stinging hairs.

Fig. 2. *abc*.

THIS is an Annual, native of Virginia; a pretty-looking Plant of a foot and half high, flowering in August. The Stalk is of a fine ruddy brown below, but of a grey green upwards: the Leaves are of a beautiful bluish green: the Flowers are pale: and the Capsules dark brown.

## 3. C H A M Æ L Æ A N T R A G I N Y.

Plate 2. Fig. 3.

## Character of the Species.

Tragia Chamælaea.

The Leaves are linear, obtuse, and undivided.

Fig. 3. *ab*.

THIS is a Perennial, native of the East Indies; a singular, and not unhandsome Plant: it grows to a foot and half high, and flowers in June. The Stalks are hard, and brown at the bottom; tender and pale green toward the top: the Leaves are of a fresh and fine green: the Flowers are of a greenish white: the Fruits are brown.



## O R D E R V.

With the Cup cut into four parts.

## G E N U S I.

## C A M P H O R E L L E.

## C A M P H O R O S M A.

Plate 3.

Character of the Genus.

The CUP is bellied, and has its Segments unequal, two larger, and bent back. The CAPSULE is oval, with a permanent style: the Cup remains round it: the Seed is oval.

## 1. M O N T P E L I E R C A M P H O R E L L E.

Plate 3. Fig. 1.

Character of the Species.

*Camphorosma Monspeliaca.*

The Leaves are linear, and hairy.

Fig. 1. a.

THIS is a Perennial, a low and obscure Plant, native of France and Italy: it scatters its weak shoots upon the ground, scarce rising any where three inches from it, and flowers in July. The lower part of the Stalk is hard, rugged, and of a ruddy brown; the upper part is grey: the Leaves are of a faint greyish green: the Flowers are pale green; with a yellowish cast.

## 2. S H A R P - L E A V E D C A M P H O R E L L E.

Plate 3. Fig. 2.

Character of the Species.

*Camphorosma Acuta.*

The Leaves are awl-shaped, hard, and smooth.

Fig. 2. a b.

THIS is a Perennial, a low and unregarded Plant; native of the Pyrenees and of Tartary: it scarcely rises to six inches high; and flowers in August. The Stalk is hard and brown below; but green upwards: the Leaves are of a strong green: the flowers are of a greenish white, with some yellow.

## 3. S M O O T H C A M P H O R E L L E.

Plate 3. Fig. 3.

Character of the Species.

*Camphorosma Glabra.*

The Leaves are oblong, three-squared, smooth, and tender.

Fig. 3. a b c.

THIS is a Perennial, native of Switzerland; a Plant of five inches high, with straggling branches; and sometimes thick-set leaves, sometimes more distant: it flowers in July. The Stalks are of a dusky green: the Leaves are of a good strong green: the Flowers are whitish, or greyish green.

## 4. B R A N C H Y C A M P H O R E L L E.

Plate 3. Fig. 4.

Character of the Species.

*Camphorosma Pteranthus.*

The Stalk is many times divided: the Leaves stand in separate clusters: the Films are curled.

Fig. 4. a b c.

THIS is an Annual, native of Arabia; a very low Plant: it scarce exceeds three inches in height, and flowers in June. The Stalk is brown, and very much divided into branches: the Leaves are of a coarse green: the Flowers are of a pale green.

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B

G E N U S



## G E N U S II.

GOLDEN SAXIFRAGE.  
CHRYSO SPLENIUM.

Plate 4.

Character of the Genus.

The CUP is divided into four, in some Flowers into five, broad Segments, coloured, and spread wide open : with two oblong Pointals ; and eight or ten Filaments.

The CAPSULE has two beaks ; it is surrounded by the Cup, and holds numerous small Seeds.

Plate 4. *a b c d e.*

## 1. ALTERNATE-LEAVED GOLDEN SAXIFRAGE.

Plate 4. Fig. 1.

Character of the Species.

*Chrysosplenium Alternifolium.*

The Leaves are placed alternately, and have long Footstalks. Fig. 1. *a b.*

THIS is a Perennial, native of our damp woods ; a Plant of early spring, whose regular manner of growth, and cluster of golden Flowers are very pleasing to the eye at that season : the Plant is weak ; it scarce rises to seven inches high ; but usually grows in great clumps ; and flowers in April. The Stalk is of a ruddy brown : the Leaves are of a very bright and pleasing green, as are also the Branches : the Flowers are of a bright yellow.

## 2. OPPOSITE-LEAVED GOLDEN SAXIFRAGE.

Plate 4. Fig. 2.

Character of the Species.

*Chrysosplenium Oppositifolium.*

The Leaves grow in pairs, and have shorter Footstalks. Fig. 2. *a b.*

THIS is a Perennial, native of our wet and shaded places : it grows to six inches high, and flowers in May. The Stalks are of a ruddy brown toward the base, and of a grey green upwards : the Leaves are of a pleasing green, but with a blueish tinge : the Flowers are yellow.

## G E N U S III.

PURSLAINET.  
ISNARDIA.

Plate 4. Fig. 3.

Character of the Genus.

The CUP is bell-shaped, and cut into four pointed Segments.

The CAPSULE is square, made of the base of the Cup ; and has four Cells.

The SEEDS are few and oblong.

Plate 4. Fig. 3. *a b c d.*

## 1. OVAL PURSLAINET.

Plate 4. Fig. 3.

Character of the Species.

*Isnardia Palustris.*

The Leaves are obtusely oval ; and the Flowers stand in their bosoms.

Fig. 3. *a b.*

THIS is an Annual, native of the river-sides of France, and of America ; it rises to about four inches high, and flowers in July. The Stalks are ruddy : the Leaves are oval, and of a blueish green : the Flowers are of a greenish white.

G E N U S



## G E N U S IV.

## PELLITORY OF THE WALL.

## P A R I E T A R I A.

Plate 5.

Character of the Genus.

The CUP is cut into four oval Segments, which spread open: three of the Flowers are placed in a Mantle of three, or six Leaves, and one of the three is only a female.

The SEED is single, oval, and a little crooked; and the Flower grows larger about it.

Plate 5. *a b c d.*

## 1. INDIAN PELLITORY OF THE WALL.

Plate 5. Fig. 1.

Character of the Species.

*Parietaria Indica.*

The Leaves are broad lanced, and they stand alternately: the Stalk is upright, but weak: and the Flowers grow in small clusters.

Fig. 1. *a b.*

THIS is a Perennial, native of the East Indies; it grows to a foot high, and flowers in August. The Stalk is brownish: the Leaves are of a very beautiful blueish green: the Flowers are pale. This Plant grows freely enough in the open air with us, and is worthy culture. There are astonishing accounts from India of its virtues against the Gravel; and experience, under my own eye, confirms them here.

## 2. COMMON PELLITORY OF THE WALL.

Plate 5. Fig. 2.

Character of the Species.

*Parietaria Officinalis.*

The Leaves are between lanced and oval, and stand alternately; the Footstalks of the tufts of Flowers are forked.

Fig. 2. *a b.*

THIS is a Perennial, native of our old walls and ruinous buildings; a weak Plant of a foot and a half high, flowering in July. The Stalk is of a grey green, ting'd with brown: the Leaves are of a faint but pleasing green: the Flowers are whitish green.

THIS species has been long known for its virtues in the Gravel; but it is very much inferior to the preceding kind.

## 3. PORTUGAL PELLITORY OF THE WALL.

Plate 5. Fig. 3.

Character of the Species.

*Parietaria Lusitanica.*

The Leaves are oval and obtuse; the Stalks are slender and weak.

Fig. 3. *a b c.*

THIS is an Annual, native of Spain and Portugal; a low Plant of no beauty: it scarce reaches five inches in height, and flowers in June. The Stalks are ruddy: the Leaves are of a fresh and fine green: the Flowers are greenish white.

## 4. J U D A I C



## 4. JUDAIC PELLITORY OF THE WALL.

Plate 6. Fig. 1.

Character of the Species.

*Parietaria Judaica.*

The Leaves are oval: the Stalks are upright, but weak: the Flowers have one petal longest.

Fig. 1. *a b c d.*

THIS is a Perennial, native of Palestine; a weak Plant, that scarce reaches the height of eight inches; but is full of branches: it flowers in July. The Stalk is naturally grey, but of a ruddy brown toward the sun: the Leaves are of a very fine fresh green: the Flowers are of a greenish or brownish white, and stand in little clusters; mostly toward the top of the Stalk and Branches.

## 5. CRETAN PELLITORY OF THE WALL.

Plate 6. Fig. 2.

Character of the Species.

*Parietaria Cretica.*

The Leaves are elliptic: and the Flowers are bell-shaped.

Fig. 2. *a b.*

THIS is a Perennial, native of Crete, and other Islands of the Archipelago; a handsome Plant, that grows to ten inches high, and flowers in August. The Stalk is of a faint green, stained with red: the Leaves are of a fresh and fine green: the Flowers are greenish white.

## 6. SMALL-LEAVED PELLITORY OF THE WALL.

Plate 6. Fig. 3.

Character of the Species.

*Parietaria Microphylla.*

The Leaves are oblong, and stand in pairs, or nearly so; there are smaller oval ones mixed among them.

Fig. 3. *a b c.*

THIS is an Annual, native of the damp grounds in Barbadoes; it is also found in Jamaica, but smaller: it grows to ten inches long, but is very weak, and branched; and flowers in August. The Stalk is of a faint green, stained with brown: the Leaves are of a faint, and somewhat yellowish green: the Flowers are of a pale greenish white, with a tinge of brown.

THIS possesses the virtues of the other Pellitories of the Wall, and is in common use in Barbadoes in disorders of the urinary passages: it operates largely by urine.



## O R D E R VI.

Having the Cup divided into five parts.

## G E N U S I.

## L I N W E E D.

## T H E S I U M.

Plate 7.

Character of the Genus.

The CUP is largest at bottom ; its Segments are small, and turn out, and are coloured within.

The permanent Cup serves as a Capsule ; its upper part lengthens ; and the Seed lies in its bottom.

The SEED is single and oval.

Plate 7. *a b c.*

## 1. F L A X - L E A V E D L I N W E E D.

Plate 7. Fig. 1.

Character of the Species.

*Thesium Linifolium.*

Short Leaves grow among the tufts of Flowers : the Leaves on the Stalk are linear.

Fig. 1. *a b.*

THIS is an Annual, native of our high grounds, and chalk hills ; but not common : it grows to about eight inches high, and flowers in July. The Stalk is of a dusky brown at the bottom, but pale green upwards : the Leaves are of light green : the Flowers are white, and shining. We have it on Newmarket Heath, in great perfection.

## 2. A L P I N E L I N W E E D.

Plate 7. Fig. 2.

Character of the Species.

*Thesium Alpinum.*

The Leaves are lanced ; and short Leaves grow on the Flowerstalks.

Fig. 2. *a b.*

THIS is an Annual, native of the Alps, and many parts of Italy and Switzerland : it grows to eight or ten inches high, and flowers in August. The Stalk is of a faint brownish green : the Leaves are of a good green : the Flowers are of a yellowish white.

## 3. C O R D E D L I N W E E D.

Plate 7. Fig. 3.

Character of the Species.

*Thesium Funale.*

The Flowers stand in a spike, and are eye-lashed : the Stalk is firm, hard, and twisted : the Leaves are awl-shaped.

Fig. 3. *a b c a.*

THIS is a Perennial, native of the Cape of Good Hope ; a small, but singular Plant : it scarce exceeds seven inches in height, and flowers in June. The Stalk is twisted, woody, and pale brown : the Leaves are of a whitish green : the Flowers are white.

## 4. H E A D E D L I N W E E D.

Plate 7. Fig. 4.

Character of the Species.

*Thesium Capitatum.*

The Flowers stand in clustery beads : the Leaves are three-cornered ; and all the edges have little thorns.

Fig. 4. *a b c.*

THIS is a Perennial, native of Æthiopia ; a little hard-stalked Plant : it rises to seven inches high, and flowers in August. The Stalk is brown, with a tinge of red ; green at the top : the Leaves are of a coarse green : the Flowers are white.



## 5. UMBRELLA'D LINWEED.

Plate 8. Fig. 1.

Character of the Species.

*Thefium Umbellatum.*

The Leaves are oblong oval: the Flowers stand in a kind of umbell.

Plate 8. Fig. 1. *a b.*

THIS is a Perennial, native of Virginia and Pennsylvania; a very handsome Plant: it grows to a foot and half high, and flowers in September. The Stalk is of a ruddy brown, but green upwards: the Leaves are of a fresh and pleasing green: the Flowers are pale straw-coloured, almost white.

## 6. RUGGED LINWEED.

Plate 8. Fig. 2.

Character of the Species.

*Thefium Scabrum.*

The clusters of Flowers stand upon Footstalks: the Leaves are three-cornered: all the edges are filmy, rough, and rugged. Fig. 2. *a b c.*

THIS is a Perennial, a little hard-stalked weed; common at the Cape of Good Hope: it grows to ten or twelve inches high, and flowers in June. The Stalk is of a dusky chestnut brown: the Leaves are of a coarse green: and their rugged edges are dusky: the Flowers are white.

## 7. CLUSTER-HEADED LINWEED.

Plate 8. Fig. 3.

Character of the Species.

*Thefium Paniculatum.*

The Stalk is terminated by a vast spreading head of Flowers: the Leaves are alternate; the lower lanced, the upper awl-shaped. Fig. 3. *a b c.*

THIS is a Perennial, native of the Cape of Good Hope; a bushy-headed little Plant: it grows to ten inches high, and flowers in August. The Stalk is hard, and of a dusky brown: the Leaves are of a strong green: the Flowers are white and glossy.



G E N U S II.  
R U P T U R E W O R T.  
H E R N I A R I A.

Plate 9.

Character of the Genus.

The CUP is divided into five, pointed Segments; spread wide open, and coloured within.

The CAPSULE is oval, and closed up in the fading Cup.

The SEEDS are egg-shaped.

Plate 9. *a b c d.*

1. S M O O T H R U P T U R E W O R T.

Plate 9. Fig. 1.

Character of the Species.

The Leaves are oval and smooth.

Herniaria Glabra.

Fig. 1. *a.*

THIS is an Annual, native of Cornwall, and some other parts of England; it scarce rises from the ground; but spreads its straggling branches every way to the length of three or four inches, and flowers in August. The Stalks are of a ruddy brown: the Leaves faint green: the Flowers yellow.

2. H A I R Y R U P T U R E W O R T.

Plate 9. Fig. 2.

Character of the Species.

The Leaves are oval, and hairy.

Herniaria Hirsuta.

Fig. 2. *a.*

THIS is an Annual, common to our own country, and to most other parts of Europe; it scatters about its weak stalks to three or four inches length, and flowers in July. The Stem is woody and brown: the Branches are of a pale green: the Leaves are of a dusky green: the Flowers are yellow.

3. W O O D Y R U P T U R E W O R T.

Plate 9. Fig. 3.

Character of the Species.

The Stem is woody: and the Flowers have only four, not five Segments.

Herniaria Fruticosa.

Fig. 3. *a b.*

THIS is a Perennial, native of Spain; a low, but hard-stalked Plant: it grows to five inches long, and flowers in August. The Stalks are of a ruddy brown: the Leaves are of a faint green: the Flowers are yellow.

4. L E N T I C U L A R R U P T U R E W O R T.

Plate 9. Fig. 4.

Character of the Species.

The Stalk is tender, and the Leaves are oval.

Herniaria Lenticularis.

Fig. 4. *a b.*

THIS is a Perennial, frequent on the sea-coast in the West of England: it grows to four inches high; a very pretty, and very singular Plant; and flowers in July. The Stalk is green and tender: the Leaves are of a very beautiful fresh green: the Capsules are brown.

There is a strange disagreement in the aspect of this Plant, and the other Rupture-worts. It is doubtful whether it be truly one of them.

G E N U S



## G E N U S III.

## K N A W E L.

## S C L E R A N T H U S.

Plate 10.

Character of the Genus.

The CUP is hollowed, small at the neck, and cut into five pointed Segments at the rim.

The CAPSULE is slender, oval, and contained in the permanent Cup.

The SEEDS are two; rounded on one side, and flat on the other.

Plate 10. *a b c d.*

## 1. A N N U A L K N A W E L.

Plate 10. Fig. 1.

Character of the Species.

*Scleranthus Annuus.*

The Cup continues open after the Seed is ripened.

Fig. 1. *a b.*

THIS is an Annual, native of our high and dry grounds; a Plant of eight inches high, but leaning: it flowers in September. The Stalk is of a dusky brown: the Leaves are of a good green: the Flowers are white, very bright, and shining.

## 2. P E R E N N I A L K N A W E L.

Plate 10. Fig. 2.

Character of the Species.

*Scleranthus Perennis.*

The Cups close as the Fruit ripens in them.

Fig. 2. *a b.*

THIS is a Perennial, native of our dry, sandy, and gravelly grounds; a low, but sturdy Plant: it scarce exceeds five inches in height; and flowers in August. The Stalk is of a bright brown: the Leaves are of a faint green: the Flowers are cream-coloured.

## 3. F R U I T F U L K N A W E L.

Plate 10. Fig. 3.

Character of the Species.

*Scleranthus Polycarpus.*

The Cups stand open, when the Fruit is ripened; and their points grow thorny: the Stalk is weak and hairy.

Fig. 3. *a b c.*

THIS is an Annual, native of Italy; a singular little Plant: it scarce grows to three inches high; but is full of spreading branches: it flowers in July. The Stalk is of a ruddy brown: the Leaves are of a faint green: the Flowers are white.

G E N U S



## G E N U S IV.

## A Y E W O R T.

## A I Z O O N.

Plate 11.

Character of the Genus.

The CUP has five large oblong Segments, coloured, and resembling Petals, and it is permanent.

The CAPSULE is oval, bellied, and has five obscure rifings: The Seeds are round.

Plate 11. *a b c.*

## 1. W E D G E - L E A V E D A Y E W O R T.

Plate 11. Fig. 1.

Character of the Species.

*Aizoon Canariense.*

The Leaves are oval, and wedged, with a point: the Flowers have no Footstalks.

Fig. 1. *a b.*

THIS is an Annual, native of the Canary Islands; a very handsome Plant: it grows to two foot high, and flowers in August. The Stalk is juicy and reddish: the Leaves are of a very fresh and fine green: the Flowers are white, with a slight tinge of brown or green.

## 2. S P A N I S H A Y E W O R T.

Plate 11. Fig. 2.

Character of the Species.

*Aizoon Hispanicum.*

The Leaves are lanced, and grow to the Stalks by a broad base: the Flowers have no Footstalks.

Fig. 2. *a b.*

THIS is an Annual, native of the Cape; of many parts of Africa; and of the South of Europe; a handsome, though weak Plant: it scarce rises to more than a foot and half in height, and flowers in June. The Stalk is juicy, and naturally of a grey green, but usually stained all over with a deep fine purple: the Leaves are of a fresh, but somewhat blueish green: the Flowers are white.

## 3. C L U S T E R E D A Y E W O R T.

Plate 11. Fig. 3.

Character of the Species.

*Aizoon Paniculatum.*

The Leaves are broad lanced, and the Flowers stand in open little clusters.

Fig. 3. *a b.*

THIS is an Annual, native of Africa; a Plant of less pleasing aspect than the others: it grows to two feet high, but weak, and flowers in July. The Stalk is of a grey green: usually tinged all over with a dusky brown: the Leaves are of a fresh and pleasing green, though with a blueish tinge: the Flowers are of a greyish white.



## G E N U S V.

## P A L M A C H R I S T I.

## R I C I N U S.

Plate 12.

Character of the Genus.

There are male and female Flowers on the same plant.

In the Male

The CUP has five oval, curled Segments; and in it are numerous Chives.

In the Female

The CUP has three broad Segments, and in it are three split Styles.

The CAPSULE is rugged, and has three Cells, and in each is one Seed.

Plate 12. *a b c d.*

## 1. COMMON PALMA CHRISTI.

Plate 12. Fig. 1.

Character of the Species.

*Ricinus Communis.*

The Leaves are shielded, and are divided like fingers, and those jagged.

Fig. 1. *a b.*

THIS is an Annual, native of the East and West Indies, and also of Africa; and of some parts of Europe; a robust and stately Plant: it grows to five feet high, and flowers in August. The Stalk is of a glowing red: the Leaves are of a fresh and very fine green: the Flowers are whitish: and the Capsules are brown: the Seeds are grey, beautifully painted with black.

From these Seeds is drawn the Castor oil, so called; excellent in Cholics arising from the Gravel; and beneficial in many other complaints.

## 2. TANARIAN PALMA CHRISTI.

Plate 12. Fig. 2.

Character of the Species.

*Ricinus Tanarius.*

The Leaves are shielded, and have obtuse deep dents at the ends.

Fig. 2. *a b.*

THIS is an Annual, native of the East Indies; a tall, but weak Plant: it grows to six feet high, and flowers in July. The Stalk is thick, but weak, and of a greyish green, stained with a dull purple: the Leaves are of a dusky green: the Flowers are whitish.

## 3. MAP PALMA CHRISTI.

Plate 12. Fig. 3.

Character of the Species.

*Ricinus Mappa.*

The Leaves are shielded, and undivided; and the veins are strong.

Fig. 3. *a b.*

THIS is an Annual, native of the Molucca Islands; a Plant of four feet high, flowering in August. The Stalk is thick, and of a dusky brown: the Leaves are of a yellowish green: the Flowers are whitish.



G E N U S VI.  
H O P W E E D.  
D A L E C H A M P I A.

Plate 13.

Character of the Genus.

There are male and female Flowers on the same plant.

In the Male

There is a double Scabbard; the upper of four, the lower of two Leaves.

The CUP is bellied, rugged, coloured, and has five dents.

In the Female

The CUP is harsh, and cut into many Segments; it stands in the same Scabbard.

There is a cluster of Stigmata in the centre, resembling Petals.

The CAPSULE is rounded, with three lobes: it has three Cells, and one round Seed in each.

Plate 13. *a b c d e*.

1. CLIMBING HOPWEED.

Plate 13. Fig. 1.

Character of the Species.

Dalechampia Scandens.

The Stalk climbs: and the Leaves are deep cut.

Fig. 1. *a b*.

THIS is a Perennial, native of South America; a Plant that runs up the trees to twelve feet high, and flowers in August. The Stalk is hard and brown: the Leaves are of a yellowish green: the Flowers are pale green.

O R D E R VI.

Plants without Petals, and with the Cups cut into six divisions.

G E N U S I.

R U S H W E E D.

S C H E U K Z E R I A.

Plate 13. Fig. 2.

Character of the Genus.

The CUP has six Segments, oblong, sharp-pointed, turned back, and permanent.

The CAPSULES are six; they are roundish, flattened, and stand asunder.

One oblong Seed is placed in each Capsule.

Plate 13. *a b c d e*.

1. MARSH RUSHWEED.

Plate 13. Fig. 2.

Character of the Species.

Scheukzeria Palustris.

The Leaves are narrow, and pointed.

Fig. 2. *a b*.

THIS is a Perennial, native of bogs in the northern part of Europe; a Plant of ten inches high, which flowers in August. The Stalk is pale green: the Leaves are of a fresher green: the Flowers are yellow: many of the Capsules frequently prove abortive.

G E N U S II.  
L I Z A R D ' s T A I L.  
S A U R U R U S.

Plate 13. Fig. 3.

Character of the Genus.

There is an oblong Scabbard of one Leaf.

There is only the rudiment of a Cup, with six dots by way of Segments; and six Filaments.

The CAPSULE is oval, tender, and has only one Cell, with one oval Seed.

Plate 13. 3. *a b c d*.

1. DROOPING LIZARD'S TAIL.

Plate 13. Fig. 3.

Character of the Species.

Saururus Cernuus.

The Leaves are heart-shaped; and the ear hangs down.

Fig. 3. *a b*.

THIS is a Perennial, native of Virginia; a Plant that runs upon the ground or climbs among the bushes to three feet long; and flowers in August. The Stalk is brown: the Leaves are of a fine strong green: the Flowers are pale, and the Fruit brown.

O R D E R



## O R D E R VII.

Plants having no Petal, and having the Cup cut into eight Segments.

## G E N U S I.

## L A D I E S M A N T L E.

## A L C H E M I L L A.

Plate 14.

Character of the Genus.

The CUP is hollowed at the base, and cut into eight Segments spread open, and alternately smaller and larger.

The Base of the CUP hardens, and serves as a Capsule.

The SEED is single, oblong, and a little flattened.

Plate 14. *a b c d.*

## 1. C O M M O N L A D I E S M A N T L E.

Plate 14. Fig. 1.

Character of the Species.

The Leaves are cut into Lobes; and plaited.

*Alchemilla Vulgaris.*

Fig. 1. *a b.*

THIS is a Perennial, native of our high and dry grounds; a Plant of very particular aspect, and great beauty in its kind: it grows to about ten inches high, but not perfectly upright; and flowers in July. The Stalks are of a ruddy brown: the Leaves are of a fresh and pleasing green: the Flowers are yellow.

## 2. A L P I N E L A D I E S M A N T L E.

Plate 14. Fig. 2.

Character of the Species.

The Leaves are fingered, and sharply serrated at the edges.

*Alchemilla Alpina.*

Fig. 2. *a b.*

THIS is a Perennial, native of our mountainous northern counties; a Plant of near a foot high, flowering in August. The Stalk is ruddy: the Leaves are of a yellowish green: the Flowers are yellow.

## 3. F I V E - L E A V E D L A D I E S M A N T L E.

Plate 14. Fig. 3.

Character of the Species.

The Leaves stand five upon a Footstalk; and are deep cut.

*Alchemilla Pentaphyllæa.*

Fig. 3. *a b.*

THIS is a Perennial, native of the north of England, and of Scotland: it grows to about six inches high, an elegant, and singularly pretty little Plant; and flowers in July. The Stalk is pale: the Leaves are of a bright greyish or silvery green: the Flowers are pale yellow.

The Leaves of Common Ladies Mantle, infused in Red Wine, are in great repute in many parts of England, for overflowings of the Menfes.

G E N U S



## GENUS II.

## PARSLEY PIERT.

## APHANES.

Plate 15. 1.

Character of the Genus.

The CUP is hollowed at the base; and has four large, and four small Segments at the rim.

There is no CAPSULE; but the base of the Cup holds the Seeds; and the Segments close over them.

The SEEDS are oval, flattened, and pointed; two follow every Flower.

Plate 15. *a b c d*.

## 1. FIELD PARSLEY PIERT.

Plate 15. Fig. 1.

Character of the Species.

*Aphanes Arvensis.*

The Leaves are deep cut.

Fig. 1. *a*.

THIS is an Annual, an obscure little Plant; native of our corn-fields, and high dry grounds: it scarce exceeds four inches in height, and flowers from May to October. The Stalk is usually tinged with brown or reddish: the Leaves are of a faint green: the Flowers are small, and of a greenish white.

## ORDER VIII.

Having the Cup divided into many parts.

## GENUS I.

## STARHORN.

## CERATOPHYLLUM.

Plate 15. 2.

Character of the Genus.

The CUP is divided into a multitude of narrow, pointed, equal Segments.

The CAPSULE is an oval nut, with a point.

The SEED is single and oval.

Plate 15. 2. *a b c*.

## 1. DEEP-SUNK STARHORN.

Plate 15. Fig. 2.

Character of the Species.

*Ceratophyllum Demersum.*

The Leaves are forked, and again split in two; and surround the Stalk like rays; the Fruit is bearded.

Fig. 2. *a b*.

THIS is a Perennial, native of our waters; in which it grows at the depth of four or five feet; and rises about fifteen inches from the mud: a dusky and ill-looking weed, but singular: it flowers in September. The Stalk is of a dusky brown: the Leaves are of a coarse green: the Flowers are whitish.

## 2. HALF-SUNK STARHORN.

Plate 15. Fig. 3.

Character of the Species.

*Ceratophyllum Submersum.*

The Leaves are forked, and again cut in three: the Fruit is naked.

Fig. 3. *a b c*.

THIS is a Perennial, native of the shallow waters of France and Italy, and of one place, and only one, that I know of, in England. I have taken it up with the hook, trolling for the large Pike of Whitlesea Meer, in Cambridgeshire: it usually lies near the surface, where there is deep mud and little water; and flowers in August. The Stalk is of a brownish green: the Leaves are of a coarse green: the Flowers are whitish.



## H E R B S.

## S E R I E S VII.

With Cups, but no Petals.

## C L A S S XXIX.

Having the Cup composed of two Leaves.

## G E N U S I.

P E P P E R.

P I P E R.

Plate 16.

Character of the Genus.

The FLOWERS and FRUIT stand in an oblong, cylindric Ear.

The CUP is scarce perceptible, but is composed of the rudiments of two Leaves.

The FRUIT is rounded, soft, and has only one Cell.

The SEED is single, and globular.

Plate 16. *a b c d*.

## 1. B L A C K P E P P E R.

Plate 16. Fig. 1.

Character of the Species.

Piper Nigrum.

The Leaves are smooth and oval; and have seven ribs, and simple Footstalks.

Fig. 1. *a b*.

THIS is a Perennial, native of the East Indies; a Plant that grows to four or five feet long, and flowers in September. The Stalk is thick, weak, and coarsely jointed; its colour is a ruddy brown: the Leaves are of a very fine glossy green: the Flowers are inconsiderable: and the Fruit is of purple, so very deep that it appears black.

## 2. B E E T L E P E P P E R.

Plate 16. Fig. 2.

Character of the Species.

Piper Beetle.

The Leaves are oblong, broad, and sharp-pointed; and have seven ribs; and there are two obtuse teeth upon the Footstalks of each.

Fig. 2. *a b c*.

THIS is a Perennial, woody Plant, native of the East Indies: it clambers upon trees, and that way rises to twenty feet in height; and flowers in July. The Stalk is weak, though hard, and of a good brown: the Leaves are of a very fine green: the Fruit is of a blackish brown,

## 3. M A L A M I R A N P E P P E R.

Plate 16. Fig. 3.

Character of the Species.

Piper Malamis.

The Leaves are oval, and sharp-pointed, and are rugged underneath; and have five ribs.

Fig. 3. *a b c*.

THIS is a Perennial, native of the East and West Indies; a Plant that climbs upon trees, and that way runs to a great height; and flowers in July. The Stalk is pale brown: the Leaves are of a pleasing green: the Fruit is almost black, very long and slender.

## 4. S I R I B O A



## 4. SIRIBOA PEPPER.

Plate 17. Fig. 1.

Character of the Species.

Piper Siriboa.

The Leaves are irregularly hearted, and have seven high ribs. Fig. 1. *a b c*.

THIS is a Perennial, native of the East-Indies; a weak, though hard-stalked Plant: it straggles among the bushes to a considerable length; and flowers in August. The Stalk is of a deep and brownish purple: the Leaves are of a strong and fine green; with brownish purple ribs: the Fruit is of a light brown.

## 5. LONG PEPPER.

Plate 17. Fig. 2.

Character of the Species.

Piper Longum.

The Leaves are heart-shaped; and some of them have long Footstalks; some entirely want them, and grow close to the Stalk. Fig. 2. *a b c*.

THIS is a Perennial, native of the East-Indies; a clambering Plant; but when supported grows to twelve feet high, and flowers in September. The Stalk is of a deep and dusky olive brown: the Leaves are of a bright and pleasing green; and have the ribs large, and of a reddish brown: the Flowers are whitish: the Fruit is a long firm Ear, close set with berries; and of a dusky brown.

## 6. DECUMANE PEPPER.

Plate 17. Fig. 3.

Character of the Species.

Piper Decumanum.

The Leaves are hearted, and reticulated; and have nine great ribs. Fig. 3. *a b c*.

THIS is a Perennial, native of the East and West Indies; a weak, though hard-stalked Plant, that grows, when supported, to fourteen feet high, and flowers in August. The Stalk is of a pale, but clouded brown: the Leaves are of a deep and dusky green, curiously reticulated: the Fruit is brown.

## 7. AMALGO PEPPER.

Plate 17. Fig. 4.

Character of the Species.

Piper Amalgo.

The Leaves are broad lanced, oval at the base, and rugged; and have five ribs. Fig. 4. *a b*.

THIS is a Perennial, native of the East and West Indies; a Plant that climbs among the trees to twelve feet high, and flowers in July. The Stalk is of a deep and dusky green: the Leaves are of a bright fresh and fine green: the Fruit is of a bright brown.

The number of ribs in the Leaves of the different Species is not perfectly exact in all; but it is a valuable mark of distinction, and is near enough to exactness to be extremely useful.

## 8. RETI-



## 8. RETICULATED PEPPER.

Plate 18. Fig. 1.

Character of the Species.

The Leaves are heart-shaped; they have five ribs, and are reticulated with small ones.

Piper Reticulatum.

Fig. 1. a b c.

THIS is a Perennial, native of the West Indies; a Plant that grows to twenty feet in height, when it meets support; and flowers in August. The Stem is of a bright chestnut brown: the Leaves are of a faint green, with the large ribs of the same brown with the Stalk: the Fruit is of a deep purplish brown.

## 9. CROOKED PEPPER

Plate 18. Fig. 2.

Character of the Species.

The Leaves are broad lanced, their ribs rise alternately: the Ear is crooked.

Piper Aduncum.

Fig. 2.

THIS is a Perennial, native of Jamaica; a woody Plant, that straggles near the ground; or, if it meet support, will run to eight feet high, among the bushes: it flowers in August. The Stalk is of a deep olive brown: the Leaves are of a light pleasing green: the Ears of Fruit are of a pale brownish purple.

## 10. CLEAR PEPPER.

Plate 18. Fig. 3.

Character of the Species.

The Leaves are heart-shaped; and placed on Footstalks: the Stalk is tender.

Piper Pellucidum.

Fig. 3. a b.

THIS is a Perennial, native of the West Indies; a tender-stalked Plant, that spreads about upon the ground; and sometimes rises to four or five feet high: it flowers in July. The Stalk is of a faint green: the Leaves are of a bright clear green, with brown ribs: the Fruit is of a faint purple.

## 11. POINTED PEPPER.

Plate 18. Fig. 4.

Character of the Species.

The Leaves are fleshy, broad lanced, and sharp-pointed.

Piper Acuminatum.

Fig. 4. a b c.

THIS is a Perennial, a weak, though hard-stalked Plant, native of South America: it crawls upon the ground; or rises by supports to four or five feet high; and flowers in August. The Stalk is of a strong brown: the Leaves are of a faint green, with brown ribs: the Fruit is of a pale purple.

## 12. OBTUSE



## 12. OBTUSE PEPPER.

Plate 19. Fig. 1.

Character of the Species.

Piper Obtusifolium.

The Leaves are oval, and obtuse; and have no ribs.

Fig. 1. a b c.

THIS is a Perennial, native of South America; a straggling Plant, of four or five feet long, which flowers in September. The Stalk is of a ruddy brown: the Leaves are of a fresh and pleasing green: the Fruit is of a brownish purple.

## 13. ROUND-LEAVED PEPPER.

Plate 19. Fig. 2.

Character of the Species.

Piper Rotundifolium.

The Leaves are rounded, and fleshy; and stand distinct.

Fig. 2. a b.

THIS is a Perennial, native of Jamaica; a very little Plant, for one of this kind: it straggles about the ground in tufts of a foot or two in diameter, and flowers in September. The Stalks are of a ruddy brown: the Leaves are of a bright fresh green: the Fruit is purplish.

## 14. SPOTTED PEPPER.

Plate 19. Fig. 3.

Character of the Species.

Piper Maculifolium.

The Leaves are oval, and shielded.

Fig. 3. a b.

THIS is a Perennial, native of South America; a Plant that grows to fifteen feet in height, when the place favours; and flowers in August. The Stalk is hard and brown: the Leaves are of a strong green: the Fruit is of a dusky purple; but grows black as it dries.

## 15. SHIELDED PEPPER.

Plate 19. Fig. 4.

Character of the Species.

Piper Peltatum.

The Leaves are shielded, a little hearted, obtuse, and nerved: the Ears stand in an umbell.

Fig. 4. a b c.

THIS is a Perennial, a woody Plant, native both of the East and West Indies: it rises to twelve feet high, and flowers in August. The Stalk is hard, and dusky: the Leaves are of a pleasing green: the Fruit is of a deep dusky brown, with a purplish tinge.



## 16. SPREAD - OUT PEPPER.

Plate 20. Fig. 1.

Character of the Species.

Piper Distachyon.

The Leaves are oval : and the Ears spread out flat on the two sides of the Footstalk.

Fig. 1. a b c.

THIS is a Perennial, native of South America ; a singular and very pretty Plant : it climbs upon the trees like Ivy with us ; and will that way run to twelve or fourteen feet in height ; and flowers in August. The Stalk is of a faint brown : the Leaves are of a pale, but pleasing green : the Fruit is of a light violet purple, when new ripened ; but blackens in drying.

## 17. UMBRELLA'D PEPPER.

Plate 20. Fig. 2.

Character of the Species.

Piper Umbellatum.

The Leaves are hearted, rounded toward the base, and sharp-pointed ; and have large veins : the Ears stand in umbells.

Fig. 2. a b c.

THIS is a Perennial, native of South-America ; a woody Plant, of twenty feet in height, and of a singular and pleasing aspect ; flowering in August. The Stalk is of a ruddy brown : the Leaves are of a fine, but somewhat blueish green : the Fruit is pale brown.

## 18. THREE - LEAVED PEPPER.

Plate 20. Fig. 3.

Character of the Species.

Piper Trifolium.

The Leaves grow three together, and are roundish, but a little hollowed at the base.

Fig. 3. a b c.

THIS is a Perennial, native of Saint Domingo ; a weak, but woody Plant, of five feet long ; often lying entirely upon the ground : it flowers in August. The Stalk is of a light brown : the Leaves are of a faint, but not unpleasing green : the Fruit is of a pale purplish brown.

## 19. FOUR - LEAVED PEPPER.

Plate 20. Fig. 4.

Character of the Species.

Piper Quadrifolium.

The Leaves grow four together ; and they are wedged, niped, and without Footstalks.

Fig. 4. a b.

THIS is a Perennial, native of South America ; a weak, woody Plant, of six or eight feet in length, which flowers in June. The Stalk is of a chestnut brown : the Leaves are of a fresh green, blotched with a deeper colour : the Ears are long, and of a pale brown.

## 20. WHORLEY PEPPER.

Plate 20. Fig. 5.

Character of the Species.

Piper Verticillatum.

The Leaves grow like rays round the Stalks ; they are oval, and have three ribs.

Fig. 5. a b c.

THIS is a Perennial, native of Jamaica ; a straggling woody Plant, of seven feet high, flowering in July. The Stalks are of a bright brown : the Leaves are of a faint and somewhat brownish green : the Fruit is long, slender, and of a bright brown.



# THE VEGETABLE SYSTEM.

21

## H E R B S.

### C L A S S XXXI\*.

Those which have no Petals to the Flower ; but whose Cup is composed of four Leaves.

#### G E N U S I. N I G H T S H A D O W. P E T I V E R I A.

Plate 21.

Character of the Genus.

The CUP is permanent, and its four Leaves are lanced, pointed, and erect. The SEED is single, oblong, cylindric ; but a little flattened at top, and bearded.

Plate 21. 1. a b.

#### 1. G A R L I C K N I G H T S H A D O W.

Plate 21. Fig. 1.

Character of the Species.

Petiveria Alliacea.

The Leaves are oval ; and there are six Filaments in the Flower.

Fig. 1. a b.

THIS is a Perennial, native of Jamaica ; a wood-side Plant, of a foot and half high, flowering in July. The Stalk is firm, upright, and of a dusky brown : the Leaves are of a faint and faded green : the Flowers are of a greenish white.

#### 2. P U R P L E N I G H T S H A D O W.

Plate 21. Fig. 2.

Character of the Species.

Petiveria Octandra.

The Leaves are broad lanced, and there are eight Filaments in the Flower.

Fig. 2. a b.

THIS is a Perennial, native of Barbadoes, and other parts of the West Indies ; a Plant of little more than a foot in height, flowering in May. The Stalk is of a pleasing chestnut brown : the Leaves are of a dusky green : the Flowers are red : and when the Seeds ripen, they feel thorny.

#### G E N U S II. S Q U A R E W O R T. T E T R A G O N I A.

Plate 21.

Character of the Genus.

The CUP is permanent ; its four Leaves are large, and resemble Petals. The CAPSULE is square : the Seed is a kind of nut, squared also, and has four cells.

The SEEDS stand one in each cell, and are oblong, and crooked.

Plate 21. 2. a b c d.

#### 1. T E N D E R S Q U A R E W O R T.

Plate 21. Fig. 3.

Character of the Species.

Tetragonia Herbacea.

The Leaves are broad lanced.

Fig. 3. a.

THIS is a Perennial, native of the Cape of Good Hope ; a singular, and not unhand- some Plant, of two feet high, flowering in July. The Stalk is of a bright brown : the Leaves are of a strong, but somewhat blueish green : the Flowers are greenish white.

#### G E N U S III. D O G ' S T O O L. C Y N O M O R I U M.

Plate 21. 4.

Character of the Genus.

There are male and female FLOWERS on the same plant ; which is naked. The CUP has its lower Leaf largest in the male ; and all four equal in the female Flower.

The SEED is single and oblong.

Fig. 4. a b.

#### 1. C R I M S O N D O G ' S T O O L.

Plate 21. Fig. 4.

Character of the Species.

Cynomorium Coccineum.

The whole Plant is one Ear of Flowers, with a few Films at its base.

THIS is an Annual, a strange and singular Plant, native of the West Indies, of Africa, and the South of Europe ; it grows from the roots of Plants, as Broom Rape with us ; and flowers in August. The whole Plant is of a fine scarlet, and the Flowers are purplish.

\* Nature perhaps affords a thirtieth Class, Plants without Petals, but with a Cup of three Leaves ; perhaps has left it dubious, or mixed. We know of no such Plant ; unless the Sparganium or Burreed be such. Its three Petals perhaps are Leaves of a Cup ; then it would fill this seeming chasm, but it would leave another : for we know of no other three-petaled Flower without a Cup : most probably the Petals and the Cup are united firmly together in that Plant.

G E N U S



## G E N U S IV.

## N E T T L E.

## U R T I C A.

Plate 22.

## Character of the Genus:

There are male and female Flowers on the same plant.

## In the Male

The CUP is composed of four rounded, hollow, obtuse Leaves.

## In the Female

The CUP is permanent, oval, hollow, obtuse, and composed of two Leaves.

The CUP closes upon the Seed, and serves as a Capsule: the Seed is oval.

Plate 22. a b c d.

## 1. R O M A N N E T T L E.

Plate 22. Fig. 1.

## Character of the Species.

*Urtica Pilulifera.*

The Leaves stand in pairs; and are oval, and serrated: the tufts of Flowers are globular.

Fig. 1. a b.

THIS is an Annual, native of Spain and Italy, and of some parts of England; but with us not common: it grows to two feet high, and flowers in August. The Stalk is pale green: the Leaves are of a deeper green: the Flowers are greenish white: this stings sharply, like its brethren.

## 2. B A L E A R I C N E T T L E.

Plate 22. Fig. 2.

## Character of the Species.

*Urtica Balearica.*

The Leaves stand in pairs; and are heart-shaped, and serrated: the Flowers are globular.

Fig. 2. a b.

THIS is an Annual, native of the East Indies, and of several parts of Europe: a bushy, branching Plant, of two feet high, flowering in July. The Stalk is of a coarse green: the Leaves are of a bright green: the Flowers are whitish.

## 3. D O D A R T ' S N E T T L E.

Plate 22. Fig. 3.

## Character of the Species.

*Urtica Dodartii.*

The Leaves stand in pairs; and are oval, and undivided: the Flowers stand in globular tufts.

Fig. 3. a b c.

THIS is an Annual, native of the South of Europe; a very branchy Plant, of two feet and a half high, flowering in August. The Stalk is dusky: the Leaves are of a fresh and pleasing green: the Flowers are greenish.

## 4. L O W N E T T L E.

Plate 22. Fig. 4.

## Character of the Species.

*Urtica Pumila.*

The Leaves are oval, and serrated, and in pairs: the tufts of Flowers are forked.

Fig. 4. a b.

THIS is an Annual, a low Plant, native of Canada; it scarce rises to six inches in height, and flowers in September. The Stalk is dusky: the Leaves are of a full green: the Flowers are greenish white.

## 5. L A R G E



## 5. LARGE-FLOWERED NETTLE.

Plate 23. Fig. 1.

Character of the Species.

*Urtica Grandiflora.*

The Leaves are oval, serrated, and in pairs: there are hearted Films at the bases of the Footstalk: the clusters of Flowers spread: and the Flowers are large.

Fig. 1. *a b c.*

THIS is an Annual, native of Jamaica; a Plant of a yard high, flowering in June. the Stalk is pale brown: the Films are dusky green: the Leaves are of a fresh and fine green: the Flowers are whitish. In the shaded parts of the West Indies the Leaves also grow to a large size; not here.

## 6. SMALL STINGING NETTLE.

Plate 23. Fig. 2.

Character of the Species.

*Urtica Urens.*

The Leaves are oval, serrated, and round; with very fine sharp hairs.

Fig. 2. *a b.*

THIS is an Annual, native of our waste grounds, and dunghills: it grows to a foot high, and flowers in July. The Stalk is green, tinged with brown: the Leaves are of a fresh, though not very strong green: the Flowers are whitish.

## 7. GREAT STINGING NETTLE.

Plate 23. Fig. 3.

Character of the Species.

*Urtica Dioecia.*

The Leaves are hearted, jagged, and in pairs: the Flowers stand in double spikes.

Fig. 3. *a b c.*

THIS is an Annual, native of our waste grounds, every where; a Plant of a yard high, flowering in August. The Stalk is of a pale olive green; but usually stained with red: the Leaves are of a strong green: the Flowers are pale, and of a whitish green. The preceding is thought to sting more sharply even than this; but perhaps 'tis otherwise.

## 8. HEMP NETTLE.

Plate 23. Fig. 4.

Character of the Species.

*Urtica Cannabina.*

The Leaves stand in pairs; and are cut into three parts, and those deep jagged.

Fig. 4. *a b.*

THIS is a Perennial, native of Siberia; a Plant of two feet and a half high, flowering in August. The Stalk is of a dusky brown: the Leaves are of a fine green: the Flowers are greenish white.

## 9. ALIENATE NETTLE.

Plate 23. Fig. 5.

Character of the Species.

*Urtica Alienata.*

The Leaves are narrow, oval, undivided, and in pairs: the Flowers stand separate.

Fig. 5. *a b.*

THIS is an Annual, native of Ceylon; a Plant of ten inches high, flowering in July. The Stalk is deep olive coloured: the Leaves are dusky green: the Flowers are brownish.

## 10. CYLINDRIC NETTLE.

Plate 23. Fig. 6.

Character of the Species.

*Urtica Cylindrica.*

The Leaves are oblong; in pairs; and jagged: the spikes of Flowers are cylindric.

Fig. 6. *a b c.*

THIS is an Annual, native of wet grounds in America; a Plant of two feet high, flowering in September. The Stalk is reddish: the Leaves are of a fine green: the Flowers are whitish.

## 11. PARASITIC NETTLE.

Plate 23. Fig. 7.

Character of the Species.

*Urtica Parietaria.*

The Leaves are oblong; in pairs; and undivided: the Flowers stand in branching clusters.

Fig. 7. *a b.*

THIS is an Annual, native of Barbadoes; a Plant of two foot high, rising from among the roots of other Plants; and flowering in August. The Stalk is brown: the Leaves are of a fine green: the Flowers are greenish white. This has been supposed to resemble Pellitory; and called after its name.

## 12. EYE-LASHED NETTLE.

Plate 23. Fig. 8.

Character of the Species.

*Urtica Ciliaris.*

The Leaves are in pairs, oval, and eye-lashed: the branches spread out.

Fig. 8. *a b.*

THIS is an Annual, native of South America; a Plant of a yard high, flowering in August. The Stalk is reddish: the Leaves are of a tawny green: the Flowers are greenish.



## 13. BURNING NETTLE.

Plate 24. Fig. 1.

Character of the Species.

*Urtica Aëstivans.*

The Leaves are alternate, and hearted: the tufts of Flowers are oval, and branched.

Fig. 1. a b c.

THIS is an Annual, native of Surinam; a Plant of two feet high, flowering in August. The Stalk is of a deep green: the Leaves are of a strong fine green: the Flowers are greenish. This stings terribly.

## 14. HEADED NETTLE.

Plate 24. Fig. 2.

Character of the Species.

*Urtica Capitata.*

The Leaves are hearted, and alternate: the Flowers stand on long loose spikes, in round tufts.

Fig. 2. a b.

THIS is a Perennial, native of Canada; a Plant of two feet high, flowering in September. The Stalk is ruddy: the Leaves are of a bright grey green: the Flowers are greenish.

## 15. DIVARICATED NETTLE.

Plate 24. Fig. 3.

Character of the Species.

*Urtica Divaricata.*

The Leaves are alternate, and oval: the Flowers stand in wide-spread tufts.

Fig. 3. a b.

THIS is a Perennial, native of Virginia; a Plant of a yard high, flowering in September. The Stalk is of a purplish brown: the Leaves are of a blue green: the Flowers are greenish white.

## 16. CANADA NETTLE.

Plate 24. Fig. 4.

Character of the Species.

*Urtica Canadensis.*

The Leaves are oval, squared at the base, and alternate: the Flower-spikes spread two ways.

Fig. 4. a b.

THIS is a Perennial, native of Siberia, and of North America; a tall well-looking Plant, and scarce stinging at all; it flowers in September. The Stalk is olive-coloured, stained with a ruddy brown: the Leaves are of a bright green: the Flowers are greenish white.

## 17. INTERRUPTED NETTLE.

Plate 24. Fig. 5.

Character of the Species.

*Urtica Interrupta.*

The Leaves are alternate, oval, and saw'd: the Spikes are single; and the tufts of Flowers stand distant on them.

Fig. 5. a b c.

THIS is a Perennial, native of the East Indies; a weak Plant, that rises among the bushes to a yard high, and flowers in August. The Leaves are pale green: the Flowers whitish.

## 18. SNOWY NETTLE.

Plate 24. Fig. 6.

Character of the Species.

*Urtica Nivea.*

The Leaves are alternate; rounded, but small at each end: the under side is white.

Fig. 6. a b c.

THIS is a Perennial, native of China, and Tartary; a Plant of six feet high, flowering in August. The Stalk is of a deep dusky green: the Leaves are of a very fine strong green on the upper side, and snow-like white underneath: the Flowers are of a dusky greenish white.

## 19. BERRIED NETTLE.

Plate 24. Fig. 7.

Character of the Species.

*Urtica Baccifera.*

The Leaves are alternate, oval, and deep dented: the Cups, with the Seeds, are juicy.

Fig. 7. a b.

THIS is a Perennial, a woody Plant, native of many parts of America: it grows to seven feet high, and flowers in September. The Stem is olive-coloured: the Branches are stained with red: the Leaves are of a fine fresh green: and the Flowers are of a greenish white.

GENUS



G E N U S V.  
C O L T ' s T A I L.  
M Y R I O P H Y L L U M.

Plate 25.

Character of the Genus.

The CUP is tender ; and its four Leaves are oblong, and unequal.  
The SEEDS stand naked, and are oblong ; and are four after each Flower.

Plate 25. *a b c.*

1. S P I K E D C O L T ' s T A I L.

Plate 25. Fig. 1.

Character of the Species.

Myriophyllum Spicatum.

The Flowers stand in slender spikes, with spaces between them.

Fig. 1. *a b.*

THIS is a Perennial, native of our ponds and ditches ; a small weak Plant, of ten inches long, that thrusts its obscure Flowers above the water, while all the rest is under : it flowers in July. The Stalk is pale brown : the Leaves are of a dusky brownish green : the Flowers are chestnut-coloured.

2. W H O R L E Y C O L T ' s T A I L.

Plate 25. Fig. 2.

Character of the Species.

Myriophyllum Verticillatum.

The Flowers stand in whorls round the Stalks.

Fig. 2. *a b.*

THIS is a Perennial, native of our shallow waters ; a Plant of five inches high, flowering in August. The Stalk is of a dusky olive colour : the Leaves are of a brownish green : the Flowers are brownish.

C L A S S XXXII.

Herbs without Petals ; but with a Cup of five Leaves.

G E N U S I.  
R U S H M A D D E R.  
O R T E G I A.

Plate 25.

Character of the Genus.

The CUP is permanent, and its five Leaves are oval, upright, and have filmy edges.

The CAPSULE is oval, with three flight ridges at top ; and has only one Cell.

The SEEDS are small, numerous, and oblong ; and pointed at each end.

1. S P A N I S H R U S H M A D D E R.

Plate 25. Fig. 3.

Character of the Species.

Ortega Hispanica.

The Stalk is rugged, and the Leaves are linear.

Fig. 3. *a b.*

THIS is an Annual, native of Spain ; a small and unregarded Plant, of about ten inches high, but weak, flowering in August. The Stalk is brown : the Leaves are of a pale, but pleasing green : the Flowers are whitish.

G E N U S II.  
C A P O N W E E D.  
G L I N U S.

Plate 25. 4.

Character of the Genus.

The CUP is permanent, and its Leaves are oval, and hollowed.

The CAPSULE is oval, with five ridges, and five cells.

The SEEDS are numerous, and roundish.

Plate 25. 4. *a b c.*

1. P U R S L A I N C A P O N W E E D.

Plate 25. Fig. 4.

Character of the Species.

The Leaves are oval.

Fig. 4. *a b.*

THIS is an Annual, native of the South of Europe ; a water-side Plant : it grows to six inches high, and flowers in August. The Stalk is reddish : the Leaves are of a fresh fine green : the Flowers are yellow.

G E N U S



Character of the Genus.

There are male and female Flowers on the same plant.

In the male

The CUP has its Leaves rounded, and equal in size; but often one deficient.

In the female

The CUP has three Leaves, which are hollowed, and permanent.

The CAPSULE is rounded, with three furrows, and three Cells; and one Seed in each.

Plate 26. *a b c d*.

1. VIRGINIAN WOLF'S MERCURY. — Plate 26. Fig. 1.

Character of the Species.

*Acalypha Virginica*.

The female Scabbards are hearted, and cut: the Leaves are oval, lanced; and have short Footstalks.

Fig. 1. *a b*.

THIS is an Annual, native of Virginia; and found also in Ceylon: it grows to a foot high, and flowers in August. The Stalk is dusky: the Leaves are of a good green: the Flowers are whitish.

2. TWIGGY WOLF'S MERCURY. — Plate 26. Fig. 2.

Character of the Species.

*Acalypha Virgata*.

The female Scabbards are hearted and ferrated: the male Flowers stand naked: the Leaves are broad lanced.

Fig. 2. *a b*.

THIS is an Annual, native of Jamaica; a Plant of a foot high, flowering in July. The Stalk is brownish: the Leaves are of a faded green: the Flowers are greenish.

3. INDIAN WOLF'S MERCURY. — Plate 26. Fig. 3.

Character of the Species.

*Acalypha Indica*.

The female Scabbards are hearted, and nurl'd: the Leaves are oval, and have Footstalks.

Fig. 3. *a b c*.

THIS is an Annual, a small weed on the dunghills in the East Indies: it grows to ten inches high, and flowers in July. The Stalk is brown: the Leaves are of a strong green: the Flowers are greenish white; but they grow brown in fading.

4. SOUTHERN WOLF'S MERCURY. — Plate 26. Fig. 4.

Character of the Species.

*Acalypha Australis*.

The female Scabbards are undivided: the Leaves are lanced, and obtuse.

Fig. 4. *a b c*.

THIS is an Annual, native of Peru: it grows to two feet high, and flowers in June. The Stalk is dusky: the Leaves are of a fine green: the Flowers are greenish white.

## GENUS IV.

## MINUARETTA. — MINUARTIA.

Plate 26.

Character of the Genus.

The CUP is permanent; and its five Leaves are awl-shaped, and harsh.

The CAPSULE is oblong, and triangular: the Seeds are roundish and flattened.

Plate 26. 5. *a b c d*.

1. FORKED MINUARETTE. — Plate 26. Fig. 5.

Character of the Species.

*Minuartia Dichotoma*.

The Flowerstalks are forked; and the Flowers are large.

Fig. 5. *a b*.

THIS is an Annual, native of Spain; it grows to eight inches high, and flowers in June. The Stalk is dusky: the Leaves are of a brownish green: the Flowers are whitish.

2. FIELD MINUARETTE. — Plate 26. Fig. 6.

Character of the Species.

*Minuartia Campestris*.

The Flowers stand in simple spikes; and are longer than the Films under them.

Fig. 6. *a b*.

THIS is an Annual, native of the high and cultivated grounds of Spain; it grows to six inches high, and flowers in August. The Stalk is brownish: the Leaves are of a faint green: the Flowers are greenish white.

3. MOUNTAIN MINUARETTE. — Plate 26. Fig. 7.

Character of the Species.

*Minuartia Montana*.

The Flowers stand in the bosoms of the bases alternately.

Fig. 7. *a b*.

THIS is an Annual, native of the high grounds of Spain: it grows to five inches high, and flowers in August. The Stalks are brown: the Leaves of a dead green: the Flowers are greenish.

## GENUS V.

## MELLUSANE. — QUERIA.

Plate 26. 8.

Character of the Genus.

The CUP is permanent; its Leaves are oblong, and sharp; and one turned down.

The CAPSULE is round, and has a single Seed.

Plate 26. 8. *a b c*.

CANADA MELLUSANE. — Plate 26. Fig. 8.

Character of the Species.

*Queria Canadensis*.

The Flowers stand in the bosoms of the Leaves; and on forked Footstalks at the top.

Fig. 8. *a b*.

THIS is an Annual, native of Canada; and common also to some parts of Europe. It grows to five inches high; and flowers in July. The Stalk is ruddy; the Leaves are of a faint green; the Flowers are whitish.



## GENUS IV.

## LUREWEED.

## ILLECEBRUM.

Plate 27.

Character of the Genus.

The CUP is hollowed, and ridged at the base, where its five Leaves unite : they are narrow, sharp, and spread out at the top ; and are coloured. The CAPSULE is roundish ; but pointed at each end : the Seed is single, and of the same shape.

Plate 27. *abc*.

## 1. WHORLED LUREWEED.

Plate 27. Fig. 1.

Character of the Species.

*Illecebrum Verticillatum.*

The Flowers stand in close whorls, and form a thick spike : the Stalk leans.

Fig. 1. *ab*.

THIS is an Annual, a small Plant, native of our western sea-coasts ; and, where it meets a favourable soil, very pretty ; it scarce exceeds five inches in length, and for the most part lies upon the ground : it flowers in July. The Stalks are pale green, tinged with brown : the Leaves are of a fresh and pleasing green : the Flowers are whitish, with a tinge of blue grey : it is often poor and naked ; but when the whorly Clubs are perfect, as here at Bayswater, they are very pretty.

## 2. SHRUBBY LUREWEED.

Plate 27. Fig. 2.

Character of the Species.

*Illecebrum Suffruticosum.*

The Stalks are woody : the Flowers stand singly in the bosoms of the Leaves.

Fig. 2. *abcd*.

THIS is a Perennial, native of Spain ; a Plant of five inches high, with a hard Stem ; it flowers in June. The Stalk is of a dark brown : the young Shoots are of a lighter and brighter brown : the Leaves are of a very fine green : the Flowers are white. The whole resembles a miniature Myrtle.

## 3. DROOPING LUREWEED.

Plate 27. Fig. 3.

Character of the Species.

*Illecebrum Cymosum.*

The Flowers hang from the bosoms of the Leaves : the Stalks are weak.

Fig. 3. *abc*.

THIS is an Annual, native of the South of France ; a pretty little Plant : it rises to about four inches high, and flowers in August. The Stalks are of a ruddy brown : the Leaves are of a greyish green : the Flowers are white.

## 4. WHITLOWGRASS LUREWEED.

Plate 27. Fig. 4.

Character of the Species.

*Illecebrum Paronychia.*

The Flowers stand in round tufts ; with Films at the base : the Stalks are weak : the Leaves are smooth.

Fig. 4. *abc*.

THIS is a Perennial, native of Spain, and of the South of France ; a low, but pretty Herb : it grows to four inches long ; but lies principally on the ground ; and flowers in August. The Stalks are olive-coloured : the Leaves are of a grey green : the Flowers are white.



## 5. HEADED LUREWEED.

Plate 28. Fig. 1.

Character of the Species.

*Illecebrum Capitatum.*

The Stalk rises up: the Flowers stand in round tufts, with bright Films among them, at the tops: the Leaves are hairy underneath; and thence appear eye-lashed.

Fig. 1. *a b c.*

THIS is a Perennial, native of Italy, and of the South of France; it grows to five inches high, is tolerably upright, and flowers in July and August. The Stalks are grey: the Leaves are whitish green: the Flowers are white. The whole Plant at a small distance looks like a clump of snow.

## 6. ARABIAN LUREWEED.

Plate 28. Fig. 2.

Character of the Species.

*Illecebrum Arabicum.*

The Stalk leans: the Flowers grow in tufts, at distances; and have bright Films.

Fig. 2. *a b c.*

THIS is an Annual, native of Arabia; a pretty little Plant: it grows to four or five inches long, but lies principally on the ground; and flowers in July. The Stalks are of a light ruddy brown: the Leaves are of a fresh and pleasing green: the Flowers are of a greenish white.

## 7. ACHYRANTHINE LUREWEED.

Plate 28. Fig. 3.

Character of the Species.

*Illecebrum Achyrantha.*

The Stalk is hairy, and creeps: the Leaves stand in pairs, and are oval, and pointed; one of the pair is smaller than the other: the Flowers stand in round prickly heads.

Fig. 3. *a b c d.*

THIS is an Annual, native of the East; a straggling Plant of six inches high, flowering in August. The Stalks are pale grey: the Leaves are of a bright pleasing green: the Flowers are white; and the Films among them are hard and prickly.

## 8. KNOTGRASS LUREWEED.

Plate 28. Fig. 4.

Character of the Species.

*Illecebrum Polygonoides.*

The Stalks creep, and are hairy: the Leaves are broad lanced: the Flowers stand naked, in clusters, in their bosoms.

Fig. 4. *a b c.*

THIS is a Perennial, native of America; a Plant of three or four inches long, weak, and often laid upon the ground entirely: it flowers in September. The Stalks are red, and hang: the Leaves are of a fresh, and very fine green: the Flowers are white.

## 9. FICOIDE



## 9. FICOIDE LUREWEED.

Plate 29. Fig. 1.

Character of the Species.

*Illecebrum Ficoideum.*

The Stalk is smooth, and weak : the Leaves are broad lanced, and have Footstalks : the Flowers stand in downy heads, with Films below.

Fig. 1. *a b c.*

THIS is a Perennial, native of the sea-coasts of America, and of the South of Europe ; a small Plant, but pretty, flowering in July. The Stalks are slender, and of a ruddy brown : the Leaves are of a faint, but pleasing green : the Flowers are white : and the Films pale brown.

## 10. SESSILE LUREWEED.

Plate 29. Fig. 2.

Character of the Species.

*Illecebrum Sessile.*

The Stalks creep, and are smooth : the Leaves are obtuse, and have no Footstalks : the Flowers stand in bell-shaped smooth heads. Fig. 2. *a b c.*

THIS is a Perennial, a small Plant, native of the East Indies : it grows to six inches long ; but is weak, and not upright ; and flowers in August. The Stalks are pale green, a little brown at the base : the Leaves are of a pleasing green : the Flowers are greyish white.

## 11. VERMICULATE LUREWEED.

Plate 29. Fig. 3.

Character of the Species.

*Illecebrum Vermiculatum.*

The Stalk is weak, creeping, and smooth : the Leaves are fleshy and obtuse : the Flowers stand in an oval head at the top of the Stalk.

Fig. 3. *a b c.*

THIS is a Perennial, native of the Brazils, and other parts on that coast ; a very pretty Plant, of seven inches high, flowering in June. The Stalk is red : the Leaves are of a very beautiful sea green : the Flowers are whitish.

## 12. CHICKWEED-LEAVED LUREWEED.

Plate 29. Fig. 4.

Character of the Species.

*Illecebrum Alfinefolium.*

The Stalk is weak, and scattered : the Leaves are oval : the Flowers stand in globular tufts in their bosoms. Fig. 4. *a b c.*

THIS is a Perennial, native of Spain ; a low Plant, scarce reaching five inches in height, and flowers in August. The Stalks are slender, and olive-coloured : the Leaves are of a pale, but pleasing green : the Flowers are blueish white.



G E N U S V.  
G O O S E F O O T.  
C H E N O P O D I U M.

Plate 30.

Character of the Genus:

The CUP is permanent, and hollow; and its Leaves are lanced, and filmy at the edge.

There is no CAPSULE; but the Cup shuts, and becomes a five-cornered covering for the Seed.

The SEED is single and rounded, and a little flattened.

Plate 30. *a b c d.*

1. G O O D H E N R Y G O O S E F O O T.

Plate 30. Fig. 1.

Character of the Species.

Chenopodium Bonus Henricus.

The Leaves are triangular, and arrowed, and undivided at the edge: the spikes of Flowers rise from the bosoms of the Leaves, and are naked.

Fig. 1. *a b.*

THIS is a Perennial, native of our farm yards, and waste grounds; a very wholesome and pleasant herb for the table, when boiled; which Nature seems to have laid every where before the poor for gathering: it grows to a foot high, and flowers in July. The Stalk is brown toward the base; green upwards: the Leaves are of a fresh green: the Flowers are greenish white.

2. T O W N G O O S E F O O T.

Plate 30. Fig. 2.

Character of the Species.

Chenopodium Urbicum.

The Leaves are triangular, and dented: the Spikes are long, slender, and near the Stalk.

Fig. 2. *a b.*

THIS is an Annual, native of old walls, and heaps of rubbish, in many parts of England; a Plant of two feet and a half high, flowering in August. The Stalk is pale: the Leaves are of a light green: the Flowers are greenish.

3. R E D G O O S E F O O T.

Plate 30. Fig. 3.

Character of the Species.

Chenopodium Rubrum.

The Leaves are triangular, a little hearted at the base, and deep cut at the sides: the Spikes are branchy, and have Leaves among them.

Fig. 3. *a b c.*

THIS is an Annual, native of our dunghills; a robust Plant of a yard high, flowering in August. The Stalk is reddish: the Leaves are of a good green; and their veins are also often red: the Flowers are greenish white.

4. W A L L G O O S E F O O T.

Plate 30. Fig. 4.

Character of the Species.

Chenopodium Murale.

The Leaves are oval, and sharply dented: the Spikes are branched and naked.

Fig. 4. *a b c.*

THIS is an Annual, native of our old walls, and dunghills: it grows to two feet and a half high, and flowers in August. The Stalk is brown: the Leaves are of a blueish green: the Flowers are greenish white.

5. L A T E G O O S E F O O T.

Plate 30. Fig. 5.

Character of the Species.

Chenopodium Serotinum.

The Leaves are triangular, but deep cut in, like fig-leaves: the Flowers grow in leafy tufts at the tops of the branches.

Fig. 5. *a b c.*

THIS is an Annual, native of our dunghills: it grows to two feet and a half high, and flowers in September. The Stalk is of a dusky brown: the Leaves are of a coarse dead green: the Flowers are whitish.

6. W H I T E



## 6. WHITE GOOSEFOOT.

Plate 31. Fig. 1.

Character of the Species.

*Chenopodium Album.*

The Leaves are triangular, with rhombic corners; and are deep cut at the sides, and are entire at the base; the upper Leaves are lanced, and undivided.

Fig. 1. *a b c.*

THIS is an Annual, a Weed of two feet and a half high; common on our dunghills; and loaded with its obscure Flowers, and dusky Seeds in September. The Stalk is brown: the Leaves are of a yellowish green: the Flowers are greenish white: and the Seeds brown.

## 7. GREEN GOOSEFOOT.

Plate 31. Fig. 2.

Character of the Species.

*Chenopodium Viride.*

The Leaves are rhombic, and deep cut: the Flowers stand in branchy clusters, with small Leaves among them.

Fig. 2. *a b c.*

THIS is an Annual, native of our waste grounds; it grows to two feet high, and flowers in August. The Stalk is olive-coloured, stained with brown: the Leaves are of a fine fresh and strong green: the Flowers are of a whitish green: the Seeds are ruddy brown.

## 8. MONGRELL GOOSEFOOT.

Plate 31. Fig. 3.

Character of the Species.

*Chenopodium Hybridum.*

The Leaves are hearted, angulated, and deep cut in at the edges: the Flowers stand in branched clusters, with no Leaves among them.

Fig. 3. *a b c.*

THIS is an Annual, another Weed, that overruns our farm-yards, waste grounds, and dunghills: it grows to two feet and a half high, and flowers in September. The Stalk is of a reddish brown: the Leaves are of blueish or greyish green: the Flowers are greenish white.

## 9. BOTRYNE GOOSEFOOT.

Plate 31. Fig. 4.

Character of the Species.

*Chenopodium Botrys.*

The Leaves are oblong, and deeply and irregularly cut in: there are divided Leaves under the naked tufts of Flowers.

Fig. 4. *a b c.*

THIS is an Annual, native of the dry and barren grounds of Spain and Italy; a Plant of two feet high, handsome in its growth, and well coloured: it flowers in August. The Stalk is of a chestnut brown: the Leaves are of a very deep and very fine green: the Flowers are pale and whitish.



## 10. AMBROSIAN GOOSE FOOT.

Plate 32. Fig. 1.

Character of the Species.

*Chenopodium Ambrosioides.*

The Leaves are lanced, and waved: the Flowers stand singly in their  
bosoms.

Fig. 1. a b.

THIS is an Annual, native of South America, and of the South of Europe; it grows to two feet high, a sweet-scented Plant, and flowers in August. The Stalk is brown: the Leaves are of a pleasing green: the Flowers are pale olive-coloured.

## 11. MULTIFID GOOSE FOOT.

Plate 32. Fig. 2.

Character of the Species.

*Chenopodium Multifidum.*

The Leaves are cut into narrow Segments: the Flowers stand in their  
bosoms.

Fig. 2. a b c.

THIS is an Annual, native of America; it grows to two feet high, and flowers in August. The Stalk is brown: the Leaves are of a dark green: the Flowers are greenish.

## 12. WORM GOOSE FOOT.

Plate 32. Fig. 3.

Character of the Species.

*Chenopodium Anthelminthicum.*

The Leaves are oval, oblong, and dented: the Flowers stand in naked  
oval tufts.

Fig. 3. a b.

THIS is a Perennial, native of Pennsylvania and Virginia; it grows to near a yard in height, and flowers in August. The Stalk is dusky: the Leaves are of a fine green: the Flowers are of a greenish hue. A tea of the Leaves kills Worms.

## 13. GREY GOOSE FOOT.

Plate 32. Fig. 4.

Character of the Species.

*Chenopodium Glaucum.*

The Leaves are oval, and nurlled: the Flowers stand in oblong, naked  
clusters.

Fig. 4. a b c.

THIS is an Annual, native of our dunghills; a Weed of two feet high, flowering in August. The Stalk is brown: the Leaves are of a blue green: the Flowers are greenish.

## 14. STINKING GOOSE FOOT.

Plate 32. Fig. 5.

Character of the Species.

*Chenopodium Vulvaria.*

The Leaves are rhombic, and undivided: the Flowers stand in clusters in  
their bosoms.

Fig. 5. a b c.

THIS is an Annual, frequent in waste grounds; a stinking Plant, of a foot long, but trailing; it flowers in August. The Stalk is pale brown: the Leaves are blue green: the Flowers are greenish white.

## 15. MANY-SEEDED GOOSE FOOT.

Plate 32. Fig. 6.

Character of the Species.

*Chenopodium Polyspermum.*

The Stalk leans: the Leaves are oval and undivided: the Flowers stand  
in naked forked spikes.

Fig. 6. a b c.

THIS is an Annual, a Weed in our gardens; it grows to two feet high, and flowers in August. The Stalk is pale: the Leaves are of a coarse green: the Flowers are greenish: the Seeds brown.

## 16. BROOM GOOSE FOOT.

Plate 32. Fig. 7.

Character of the Species.

*Chenopodium Scoparia.*

The Leaves are narrow lanced, plain, and undivided: the Flowers stand  
in oval spikes.

Fig. 7. a b c.

THIS is an Annual, native of Japan and China; a Plant of a foot and half high, flowering in September. The Stalk is brown: the Leaves are of a good green: the Flowers are greenish.

## 17. SEA GOOSE FOOT.

Plate 32. Fig. 8.

Character of the Species.

*Chenopodium Maritimum.*

The Leaves are cylindric, and awl-shaped.

Fig. 8. a b.

THIS is an Annual, native of our sea-coasts; a Plant of a foot high, flowering in August. The Stalks are light brown: the Leaves are of a blue green: the Flowers are greenish.

## 18. BEARDED GOOSE FOOT.

Plate 32. Fig. 9.

Character of the Species.

*Chenopodium Arifatum.*

The Leaves are fleshy, lanced, and undivided: the Flowers stand in forked  
bearded spikes.

Fig. 9. a b.

THIS is an Annual, native of Virginia, and of Siberia; a Plant of two feet high, flowering in September. The Stalks are dusky: the Leaves are of a faint green: the Flowers are of a pale brownish green: the Seeds are brown.



## G E N U S VI.

## B E E T.

## B E T A.

Plate 33.

Character of the Genus.

The CUP is permanent ; its five Leaves are oval, obtuse, and stand hollow.

The CAPSULE is defended by the base of the Cup, and is oblong.

The SEED is single, and oblong ; but kidney-shaped.

Plate 33. *a b c d.*

## 1. COMMON B E E T.

Plate 33. Fig. 1.

Character of the Species.

Beta Vulgaris.

The Leaves are oval : the Flowers stand in small thick set clusters.

Fig. 1. *a b.*

THIS is a Biennial, native of the coasts of Italy ; and frequent in our kitchen gardens, where culture has wonderfully enlarged its Leaves : it grows to a yard high, and flowers in August. The Stalks are more or less red : the Leaves have also a great deal of red in them : the Flowers are dusky. Often in our gardens the entire Plant is crimson. There are few Vegetables more perfectly wholesome than the Beet ; or fitter for general use at table.

## 2. CICLANE B E E T.

Plate 33. Fig. 2.

Character of the Species.

Beta Cicla.

The Leaves are oblong : and the Flowers stand in tufts of threes together.

Fig. 2. *a b.*

THIS is a Biennial, native of the South of Europe : it grows to a yard high, and flowers at the end of August. The Stalk is of a pale green : the Leaves are of a fresh and pleasing green : the Flowers are greenish white.

## 3. S E A B E E T.

Plate 33. Fig. 3.

Character of the Species.

Beta Maritima.

The Leaves are oval ; squared a little at the base : the Flowers stand by twos.

Fig. 3. *a b.*

THIS is a Biennial, native of our sea-coasts ; a Plant of two feet high, but weak, and seldom upright : it flowers in July. The Stalk is of a faint green : the Leaves are of a fresh and pleasing green : the Flowers are whitish.

It has been said that the other two Species were produced by culture from this. 'Tis soon said, but will not bear enquiry ; at least, experience, here at Bayswater, perfectly contradicts it.

G E N U S



## G E N U S VII.

## G L A S S W E E D.

## S A L S O L A.

Plate 34.

Character of the Genus.

The CUP is permanent ; and its five Leaves are oval, obtuse, and thicken'd at the top.

The CAPSULE has the rudiments of two Styles ; it is oval, shut up in the Cup, and has only one Cell.

The SEED is single, large, and twisted spirally.

Plate 34. *a b c d e.*

## 1. K A L I G L A S S W E E D.

Plate 34. Fig. 1.

Character of the Species.

Salsola Kali.

The Stalk is tender, and leans : the Leaves are awl-shaped, and prickly : the Flowers stand singly in their bosoms.

Fig. 1. *a b c.*

THIS is an Annual, native of our sea-shores ; a straggling Plant of a foot long, but trailing on the ground : it flowers in July. The Stalk is of a dusky brownish grey : the Leaves are of a greyish green : the Flowers are pale green.

## 2. T R A G A N E G L A S S W E E D.

Plate 34. Fig. 2.

Character of the Species.

Salsola Tragus.

The Stalk is tender, and upright : the Leaves are oblong, awl-shaped, and sharp : the Cups are oblong.

Fig. 2. *a b c.*

THIS is an Annual, native of the coasts of Spain and Italy ; an upright branchy Plant, of ten inches high, flowering in July. The Stalk is tinged with a ruddy brown : the Leaves are of a fresh good green : the Flowers are greenish white.

## 3. R O S E G L A S S W E E D.

Plate 34. Fig. 3.

Character of the Species.

Salsola Rosacea.

The Stalk is tender : the Leaves are sharp-pointed : the Cups spread open, and are large.

Fig. 3. *a b c.*

THIS is an Annual, native of the sea-coasts of Asia ; an extremely pretty Plant : it grows to about ten inches high, and flowers in July. The Stalk is of a pale greyish green : the Leaves are of a fine green : the Flowers are white ; but often have a blush of red on the inside.

## 4. S O D A N E G L A S S W E E D.

Plate 34. Fig. 4.

Character of the Species.

Salsola Soda.

The Stalks are tender, and scatter themselves about : the Leaves are not prickly.

Fig. 4. *a b.*

THIS is an Annual, native of the sea-coasts of Italy ; a Plant of a foot long, but scattered about the ground : it flowers in August. The Stalks are reddish : the Leaves are of a fresh green : the flowers are greenish white.

## 5. C U L T I V A T E D



## 5. CULTIVATED GLASSWEED.

Plate 35. Fig. 1.

Character of the Species.

*Salsola Sativa.*

The Stalks are branched, and scattered about: the Leaves are cylindric, and smooth: the Flowers stand in clusters

Fig. 1. *a b c.*

THIS is an Annual, native of the sea-coasts of Spain; a low and obscure Plant: it grows to seven inches high, and flowers in August. The Stalks are of a grey green, tinged with red: the Leaves are of a strong green; but with a greyish cast: the Flowers are pale and whitish.

## 6. TALL GLASSWEED.

Plate 35. Fig. 2.

Character of the Species.

*Salsola Altitima.*

The Stalk is tender, upright, and branched: the Leaves are very narrow, and have Flower Footstalks at their base.

Fig. 2. *a b c.*

THIS is an Annual, native of the salt-pits in Italy, and other parts of Europe, and the East; it grows to two feet and a half high, and flowers in July. The Stalk is of an olive green, stained with red: the Leaves are fresh green: the Flowers are greenish white.

## 7. SALT GLASSWEED.

Plate 35. Fig. 3.

Character of the Species.

*Salsola Salva.*

The Stalk is tender, and tolerably upright: the Leaves are linear, fleshy, and have no thorny point: the Cups are juicy, and clear.

Fig. 3. *a b c.*

THIS is an Annual, native of Persia; a pretty Plant, for one of this kind: it grows to eight inches high, and flowers in July. The Stalk is of a high and fine crimson: the Leaves are of a fresh and fine green: the Flowers are whitish.

## 8. HAIRY GLASSWEED.

Plate 35. Fig. 4.

Character of the Species.

*Salsola Hirsuta.*

The Stalks are tender, weak, and branched: the Leaves are cylindric and downy.

Fig. 4. *a b c.*

THIS is an Annual, native of the sea-coasts of the South of Europe; a low Plant, but branchy: it scarce exceeds five inches in height, and flowers in August. The Stalk is of a bright purple: the Leaves are of a fine strong green: the Flowers are whitish.



## 9. BRANCHY GLASSWEED.

Plate 36. Fig. 1.

Character of the Species.

*Salsola Polyclonos.*

The Stalk is hard, and spreads into branches: the Leaves are oblong: the Cups are clustered, and nip'd at the tips, and coloured. Fig. 1. *abc.*

THIS is an Annual, native of the coasts of Sicily; a low Plant, but not without its prettyness: it rises to about four inches and a half, and flowers in August. The Stalk is grey green; more or less tinged with red: the Leaves are of a blueish green: the Flowers are white.

## 10. PROSTRATE GLASSWEED.

Plate 36. Fig. 2.

Character of the Species

*Salsola Prostrata.*

The Stalk is weak, but woody: the Leaves are linear, and hairy; but without thorns. Fig. 2. *abc.*

THIS is a Perennial, native of the coasts of Spain and Italy; and also of several parts of Asia; a low tho' hard-stalked Plant: it grows to seven or eight inches in length, and flowers in July. The Stalk is reddish brown: the Leaves are of a fresh, but light green: the Flowers are greenish.

## 11. WOODY GLASSWEED.

Plate 36. Fig. 3.

Character of the Species.

*Salsola Fruticosa.*

The Stalk is woody, and upright: the Leaves are narrow, obtuse, and smooth. Fig. 3. *abc.*

THIS is a Perennial, native of the sea-coasts of France and Spain; a Plant of ten inches high, flowering in June. The Stalk is hard and woody: the Leaves are of a faded green: the Flowers are greenish white.

## 12. VERMICULATE GLASSWEED.

Plate 36. Fig. 4.

Character of the Species.

*Salsola Vermiculata.*

The Stalk is woody: the Leaves are oval, fleshy, and sharp-pointed. Fig. 4. *abc.*

THIS is a Perennial, native of Spain and Italy; it grows to ten inches high, and flowers in August. The Stalk is brown or ruddy: the Leaves are of a fresh green: the Flowers are whitish.

## 13. THORNY GLASSWEED.

Plate 36. Fig. 5.

Character of the Species.

*Salsola Muricata.*

The Stalk is woody and twiggy: the Leaves are oval: and the Cups are prickly. Fig. 5. *abc.*

THIS is a Perennial, native of Egypt; a Plant of a foot high, flowering in June. The Stalk is of a ruddy brown: the Leaves are of a dusky green: the Flowers are greenish white.



G E N U S VII.  
P U R S L A V E L L.  
T R I A N T H E M A.

Plate 37.

Character of the Genus.

The CUP has its five Leaves elliptic, raised, and coloured within.

The CAPSULE is oval, with four slight ridges, and one Cell.

The SEEDS are numerous, rugged, and roundish.

Plate 37. *a b c d.*

1. R E D P U R S L A V E L L.

Plate 37. Fig. 1.

Character of the Species.

Trianthema Monogyna.

The Stalk creeps : the Leaves are oval, and alternate. Fig. 1. *a b.*

THIS is a Biennial, native of Jamaica ; a weak Plant, of five inches long, flowering in July. The Stalk is red : the Leaves are deep green : the Flowers are reddish.

2. G R E E N P U R S L A V E L L.

Plate 37. Fig. 2.

Character of the Species.

Trianthema Pentandra.

The Stalk is upright : the Leaves are broad lanced, and obtuse, and in pairs. Fig. 2. *a b c.*

THIS is an Annual, native of Arabia ; an upright Plant, of a foot high, flowering in August. The Stalk is pale green : the Leaves are of a bright green : the Flowers are greenish white.

3. O B T U S E P U R S L A V E L L.

Plate 37. Fig. 3.

Character of the Species.

Trianthema Decandra.

The Stalk creeps : and the Leaves are spatula-shaped, and in pairs. Fig. 3. *a b c.*

THIS is an Annual, native of China ; a Plant of five inches high, flowering in August. The Stalk is of a dusky green : the Leaves are of a good green : the Flowers are whitish.

G E N U S VIII.  
S T A G W O R T L E.  
P H A R N A C E U M.

Plate 37.

Character of the Genus.

The CUP is permanent ; and its five Leaves are oval ; they stand hollow, and are thin at the edge.

The CAPSULE is oval, with three flight lines, and three Cells.

The SEEDS are round, depressed, and edged.

Plate 37. 4. *a b c d.*

1. U M B R E L L A ' D S T A G W O R T L E.

Plate 37. Fig. 4.

Character of the Species.

Pharnaceum Cerviana.

The Leaves are linear : the Flowers stand in a kind of umbells. Fig. 4. *a b.*

THIS is an Annual, native of the South of Europe, and the East Indies ; a Plant of three inches high, flowering in August. The Stalk is reddish : the Leaves are of a fine green : the Flowers are whitish.

2. M A D D E R S T A G W O R T L E.

Plate 37. Fig. 5.

Character of the Species.

Pharnaceum Mollugo.

The Stalk creeps : the Leaves are linear, and whorled ; and the Flowers stand single. Fig. 5. *a b c.*

THIS is an Annual, native of the Cape of Good Hope ; a low Plant, scarce four inches high, flowering in August. The Stalks are brown : the Leaves are of a deep green : the Flowers are whitish.

3. D O W N Y S T A G W O R T L E.

Plate 37. Fig. 6.

Character of the Species.

Pharnaceum Incanum.

The Leaves are linear : the tufts of Flowers stand on very long Footstalks. Fig. 6. *a b.*

THIS is an Annual, native of the Cape of Good Hope ; a pretty Plant, of four inches high, flowering in July. The Stalks are brown : the Leaves are of a good green : the Flowers are greenish white.

4. H E A R T E D S T A G W O R T L E.

Plate 37. Fig. 7.

Character of the Species.

Pharnaceum Cordifolium.

The Leaves are hearted at the farther end : the tufts of Flowers stand on forked Footstalks. Fig. 7. *a b c.*

THIS is an Annual, native of the Cape of Good Hope ; a weak Plant of five inches high, flowering in June. The Stalk is of a dusky green : the Leaves are of a fresh green : the Flowers are greenish white.

G E N U S



## G E N U S IX.

## A M A R A N T H.

## A M A R A N T H U S.

Plate 38.

Character of the Genus.

There are male and female Flowers on the same Plant.

In the male

The CUP has five, or three, lanced permanent Leaves, coloured and pointed; and in these are either five or three Filaments; as there are five or three Leaves in the Cup.

In the Female

The CUP has also five or three Leaves; but no Filaments, only the rudiment of the Capsule.

The CAPSULE is oval, and flattened; and has three points; and only one Cell.

The SEED is single, and large.

Plate 38. *a b c d e*.

## 1. W H I T E A M A R A N T H.

Plate 38. Fig. 1.

Character of the Species.

*Amaranthus Albus.*

The Flowers stand on oblong divided heads; each has three Leaves: the Leaves of the Plant are hearted.

Fig. 1. *a b c d*.

THIS is an Annual, native of the sea-coasts of Pennsylvania; a handsome Plant, of two feet and a half high, flowering in August. The Stalk is of a dead green; stained with brown: the Leaves are of a fresh and fine green: the Flowers are greenish, with a little yellow.

## 2. B L A C K A M A R A N T H.

Plate 38. Fig. 2.

Character of the Species.

*Amaranthus Gracizans.*

The Flowers have three Leaves; and are placed in simple oval heads: the Leaves are broad lanced, and nurlled.

Fig. 2. *a b c*.

THIS is an Annual, native of Virginia; a handsome Plant, of two feet high, flowering in September. The Stalks are deep green: the Leaves are of a very deep blueish green; in some places near black: the Flowers are olive-coloured, with a tinge of yellow.

## 3. S P O T T E D A M A R A N T H.

Plate 38. Fig. 3.

Character of the Species.

*Amaranthus Melancholicus.*

The Flowers have three Leaves; and stand in round, coloured tufts, in the bosoms of the Leaves: the Leaves are lanced, and sharp-pointed; and usually stained in the middle.

Fig. 3. *a b c*.

THIS is an Annual, native of the East-Indies; a Plant of a yard high, flowering in August. The Stalk is of an olive colour, variously stained with red: the Leaves are of a strong and fine green, with a deep black spot in the middle: the Flowers are of a fine scarlet.

## 4. S H O R T-



## 4. SHORT-SPIKED AMARANTH.

Plate 39. Fig. 1.

Character of the Species.

*Amaranthus Polygamus.*

The Flowers have only two Leaves; and stand in oval spikes at the tops of the branches: the Leaves are broad lanced: there are hermaphrodite and female Flowers.

Fig. 1. *a b c.*

THIS is an Annual, native of the East-Indies; a robust Plant of four feet high, flowering in August. The Stalk is olive-coloured: the Leaves are of a faint, but pleasing green: the Flowers are greenish white; but sometimes stained with red.

## 5. THREE-COLOURED AMARANTH.

Plate 39. Fig. 2.

Character of the Species.

*Amaranthus Tricolor.*

The Flowers have three Leaves: and stand in roundish tufts, in the bottoms of the Leaves, surrounding the Stalks: the Leaves are oval, lanced, and coloured.

Fig. 2. *a b c.*

THIS is an Annual, native of the East-Indies; a very beautiful and noble Plant: it grows to a yard high, and flowers in July. The Stalk is red: the Leaves are of a bright green, stained with red and yellow; the upper ones are usually red intirely: the Flowers are crimson.

## 6. GANGETIC AMARANTH.

Plate 39. Fig. 3.

Character of the Species.

*Amaranthus Gangeticus.*

The Flowers have three Leaves; and stand in conic spikes: the Leaves are hearted.

Fig. 3. *a b c.*

THIS is an Annual, native of the East-Indies; a Plant of two feet high, flowering in July. The Stalk is reddish: the Leaves are of a dusky green: the Flowers are crimson.

## 7. MANGOSTANE AMARANTH.

Plate 39. Fig. 4.

Character of the Species.

*Amaranthus Mangostanus.*

The Flowers have three Leaves; and they stand in oval spikes: the Leaves are rhombic.

Fig. 4. *a b c.*

THIS is an Annual, native of the East-Indies; a Plant of a yard high: it flowers in August. The Stalk is olive-coloured; stained at times with a ruddy brown: the Leaves are of a strong good green: the Flowers are purple.



## 8. DEEP AMARANTH.

Plate 40. Fig. 1.

*Amaranthus Trifidis.*

Character of the Species.

The Flowers have three Leaves, and stand in rounded spikes: the Leaves are oval and hearted, nipt, and shorter than their Footstalks. Fig. 1. *a b c d.*

THIS is an Annual, native of China; a handsome Plant of three feet high, and full of branches, flowering in August. The Stalk is dusky: the Leaves are of a coarse green: the Flowers are purple; usually there is a blackish spot on the under part of every leaf; but not always.

## 9. LIVID AMARANTH.

Plate 40. Fig. 2.

*Amaranthus Lividus.*

Character of the Species.

The Flowers have three Leaves; they stand in rounded spikes: the Leaves are elliptic, and obtuse. Fig. 2. *a b c.*

THIS is an Annual, native of Virginia; a Plant that rises to the height of more than a yard, and flowers in September. The Stalk is red: the Leaves are of a dead green, and of a rugged aspect: the Flowers are green; there is no tinge of red or yellow in them.

## 10. KITCHEN AMARANTH.

Plate 40. Fig. 3.

*Amaranthus Oleraceus.*

Character of the Species.

The Flowers have some three, some five Leaves: the Leaves are oval, obtuse, and nip'd. Fig. 3. *a b c.*

THIS is an Annual, native of the East Indies; a Plant of near a yard high, flowering in August. The Stalk is tender, and green: the Leaves are of a fresh and fair green: the Flowers are greenish white.

## 11. BLITE AMARANTH.

Plate 40. Fig. 4.

*Amaranthus Blitum.*

Character of the Species.

The Flowers have only three Leaves, and stand in thick clusters at the sides of the Stalks: the Leaves are oval, and blunted: the Stalk is branchy. Fig. 4. *a b c.*

THIS is an Annual, native of the South of Europe; it grows to two feet high, and flowers in August. The Stalk is stained with a strong red; the Leaves are of a strong green, with red veins: the Flowers are pale greenish; but with more or less red in them, according to the exposure.

## 12. GREEN AMARANTH.

Plate 40. Fig. 5.

*Amaranthus Viridis.*

Character of the Species.

The Flowers have three Leaves: the Leaves are oval, and nip'd: the Stalk is upright. Fig. 5. *a b c.*

THIS is an Annual, native of Spain and Italy; and found also in the Brasils. The Stalk is firm, and red: the Leaves are of a strong fine green: the Flowers are also green.



## 13. KNOT-GRASS AMARANTH.

Plate 41. Fig. 1.

Character of the Species.

*Amaranthus Polygonoides.*

The Flowers have only three Leaves; they stand clustered in the bosoms of the Leaves: the Leaves are oval, and nip'd: and the female Flowers are hollowed.

Fig. 1. *a b c d.*

THIS is an Annual, native of the East and West Indies; an obscure Plant, of a foot and half long; but lying on the ground: it flowers in August. The Stalks are of a dead green, stained more or less with brown: the Leaves are of a good green; and there is often, not always, a white spot in their centre: the Flowers are of a greenish white; and the female ones are white at the edges.

## 14. BASTARD AMARANTH.

Plate 41. Fig. 2.

Character of the Species.

*Amaranthus Hybridus.*

The Flowers have five Leaves; and stand naked, in branchy tufts, doubled at the base.

Fig. 2. *a b c.*

THIS is an Annual, native of Virginia; a handsome, tho' not gaudy Plant, of two feet and a half high, flowering in September. The Stalk is of a brownish green: the Leaves are of a fresh and fair green: the Flowers are greenish white.

## 15. CLUSTERY AMARANTH.

Plate 41. Fig. 3.

Character of the Species.

*Amaranthus Paniculatus.*

The Flowers have five Leaves, and stand in divided branchy tufts, spread wide from one another.

Fig. 3. *a b c.*

THIS is an Annual, native of Pennsylvania: it grows to five feet high, and flowers in September. The Stalk is olive-coloured, stained with a fine red: the Leaves are of a dull green, with red veins underneath: the Flowers are greenish.

## 16. BLOODY AMARANTH.

Plate 41. Fig. 4.

Character of the Species.

*Amaranthus Sanguineus.*

The Flowers have five Leaves; they stand in branchy, upright, and spreading clusters: the Leaves are elliptic.

Fig. 4. *a b c.*

THIS is an Annual, native of the Bahama Islands; a showy Plant, of more than a yard high, flowering in August. The Stalk is pale brown: the Leaves are of a coarse green on the upper side, and of a fine red underneath: the Flowers are greenish white.

## 17. TURNED



## 17. TURNED AMARANTH.

Plate 42. Fig. 1.

Character of the Species.

*Amaranthus Retroflexus.*

The Flowers have five Leaves : the Stalk is downy, and bent from joint to joint : the Branches hang down : and the spikes of Flowers turn up again.

Fig. 1. *a b c d.*

THIS is an Annual, native of Pennsylvania ; a weak and very singular Plant, of two feet high, flowering in September. The Stalk is of a pale green ; but stained with red at the joints : the Leaves are of a bright, but yellowish green : the Flowers are pale crimson.

## 18. GOLDEN AMARANTH.

Plate 42. Fig. 2.

Character of the Species.

*Amaranthus Flavus.*

The Flowers have five Leaves ; and stand in compound clusters : the Leaves are inversely oval, nip'd, and terminated by a small spine.

Fig. 2. *a b c d.*

THIS is an Annual, native of the East Indies ; a Plant of four feet high, flowering in August. The Stalks are of a faint green, streaked with crimson : the Leaves are of a good green, with red veins on the under part : the Flowers are gold yellow.

## 19. GLOOMY AMARANTH.

Plate 42. Fig. 3.

Character of the Species.

*Amaranthus Hypochondriacus.*

The Flowers have five Leaves ; they stand in compound clusters, upright, and thick-set : the Leaves are oval, with a point.

Fig. 3. *a b c.*

THIS is an Annual, native of Virginia ; a robust Plant, of a yard and a half high, and flowering in September. The Stalk is of a strong green, stained a little with a dusky red : the Leaves are of a strong fine green : the Flowers are deep purple.

## BLEEDING AMARANTH.

Plate 42. Fig. 4.

Character of the Species.

*Amaranthus Cruentus.*

The Flowers have five Leaves ; they stand in long distant clusters : the Leaves are oval.

Fig. 4. *a b c d.*

THIS is an Annual, native of China ; a very fine Plant, of three feet and a half high, flowering in August. The Stalk is of a light green, tinged with red : the Leaves are of a faint green on the upper side, and blood-red underneath : the Flowers are of a bright crimson. The whole Plant grows blood-red in fading.

## 21. TAIL'D AMARANTH.

Plate 42. Fig. 5.

Character of the Species.

*Amaranthus Caudatus.*

The Flowers have five Leaves ; they hang in very long branched clusters.

Fig. 5. *a b c.*

THIS is an Annual, native of Ceylon, and of South America ; a Plant of a yard high, flowering in August. The Stalk is of a faint green, stained more or less with purple : the Leaves are of a strong green : the Flowers are deep purple.

## 22. SHARP AMARANTH.

Plate 42. Fig. 6.

Character of the Species.

*Amaranthus Spinosus.*

The Flowers have five Leaves ; and stand in upright clustered spikes : there are thorny Films in the bosoms of the Leaves.

Fig. 6. *a b c.*

THIS is an Annual, native of the East Indies ; an upright, handsome Plant, that grows to a yard high, and flowers in August. The Stalk is of a ruddy brown : the Leaves are of a fresh and pleasing green : the Flowers are sometimes green, sometimes of a bright rose colour.

GENUS



## G E N U S IX.

## O R A C H.

## A T R I P L E X.

Plate 43.

Character of the Genus.

There are hermaphrodite and female Flowers on the same plant.

In the Hermaphrodite

The CUP is permanent ; and has its five Leaves oval, and filmy at the edge.

The SEED is single, and the Cup rises about it, and becomes pentangular, and dry.

In the female

The CUP has only two Leaves ; they are large, oval, and flat.

The SEED is single, and oval, and the Cup closes about it for a Capsule.

Plate 43. *a b c.*

## 1. H A L I M A N E O R A C H.

Plate 43. Fig. 1.

Character of the Species.

*Atriplex Halimus.*

The Stalk is woody : the Leaves are deltoide, and undivided at the edge.

Fig. 1. *a b.*

THIS is a Perennial, native of our sea-coasts : it grows to a foot high, and flowers in September. The Stalk is of a faint green, spotted and stained with brown : the Leaves are of a bright green : the Flowers are whitish : and the Seeds are ruddy brown.

## 2. P U R S L A I N O R A C H.

Plate 43. Fig. 2.

Character of the Species.

*Atriplex Portulacoides.*The Stalks are woody : and the Leaves are inverted ovals. Fig. 2. *a b c.*

THIS is a Perennial, native also of our sea-coasts : it grows to ten inches high, and flowers in August. The Stalk is of a ruddy chestnut brown : the Leaves are of a strong fine green : the Flowers are greenish white.

## 3. G L A U C O U S O R A C H.

Plate 43. Fig. 3.

Character of the Species.

*Atriplex Glauc.*

The Stalk is woody, and leans : the Leaves are oval, and have no Footstalks ; the lower are a little dented ; the upper are undivided.

Fig. 3. *a b c.*

THIS is a Perennial, native of France and Spain ; a weak Plant, of a foot and half high, flowering in August. The Stalk is olive coloured ; stained with red : the Leaves are of a bluish green : the Flowers are brownish : and the Seeds are chestnut colour.

## 4. R O S E O R A C H.

Plate 43. Fig. 4.

Character of the Species.

*Atriplex Rosea.*

The Stalk is tender : the Leaves are deep cut, and downy : the Fruit is square.

Fig. 4. *a b c.*

THIS is an Annual, native of Italy and Spain ; it grows to a foot and half high, and flowers in August. The Stalk is of a faint green : the Leaves are of a bright, and fine green : the Flowers are pale : and the square ruddy Fruit looks with a singular prettiness.



## 5. SIBERIAN ORACH.

Plate 44. Fig. 1.

Character of the Species.

*Atriplex Sibirica.*

The Stalk is tender : the Leaves are triangular, and deep cut : the Cups are prickly at their base.

Fig. 1. *abc.*

THIS is an Annual, native of Siberia ; a Plant of two feet and a half high, and full of Branches : it flowers in August. The Stalk is of a grey green, stained with brown : the Leaves are of a blue green : the Flowers are greenish white : the Seeds are brown.

## 6. TARTARIAN ORACH.

Plate 44. Fig. 2.

Character of the Species

*Atriplex Tartarica.*

The Stalk is firm, and thick : the Leaves are deltoide, and deep waved ; they stand alternate, and remote.

Fig. 2. *abc.*

THIS is an Annual, native of Tartary ; a tall, robust Plant ; it rises to four feet in height, and flowers in September. The Stalk is of a chestnut brown : the Leaves are of a strong, but blueish green : the Flowers are whitish : and the Seeds light brown.

## 7. GARDEN ORACH.

Plate 44. Fig. 3.

Character of the Species.

*Atriplex Hortensis.*

The Stalk is upright, tender, and thick : the Leaves are triangular, and deep cut.

Fig. 3. *abc.*

THIS is a Perennial, native of Asia ; but frequent in our Kitchen Gardens ; having been formerly introduced as a pot-herb : it grows to a yard or more in height, and flowers in August. The Stalk is green, tinged a little with a light brown : the Leaves are of a light pleasing green : the Flowers are whitish : and the Seeds are brown.

## 8. SPEAR-LEAVED ORACH.

Plate 44. Fig. 4.

Character of the Species.

*Atriplex Haftata.*

The Stalk is tender : the Leaves are arrow'd : and the valves of the Seed Cup are speared.

Fig. 4. *abc.*

THIS is an Annual, native of our waste grounds ; a Weed, of two feet and a half high, flowering in August. The Stalk is of a light green ; sometimes stained with brown : the Leaves are of a bright fresh green : the Flowers are olive-coloured : and the Fruit is brown.

## 9. JAGGED ORACH.

Plate 44. Fig. 5.

Character of the Species.

*Atriplex Laciniata.*

The Stalk is tender, but thick : the Leaves are deltoide, deep cut in at the sides, and silvery white underneath.

Fig. 5. *abc.*

THIS is an Annual, native of our sea-coasts ; a Plant of two feet high, flowering in August. The Stalk is of a faint green ; stained with brown : the Leaves are of a good blue green on the upper side, and silvery white underneath : the Flowers are greyish : and the Seeds are brown.



## 10. WIDE-SPREAD ORACH.

Plate 45. Fig. 1.

Character of the Species.

*Atriplex Patula.*

The Stalk is tender, and branched: the lower Leaves are oblong, with a rhomboide aspect; the upper are linear: the Seed Cups are dented.

Fig. 1. *a b c.*

THIS is an Annual, native of our waste grounds, and old walls: it grows to a foot and half high, in a wild straggling manner, and flowers in August. The Stalk is naturally of an olive-green; but usually stained with brown: the Leaves are of a fresh and strong green: the Flowers are greenish white, and soon fade: the Seeds are numerous, and of a chefnut brown.

An old woman, near Iver, was famous for curing Fluxes of the belly. She began with a vomit; and gave small doses of the same medicine for a time afterwards; which soon and safely cured. The medicine was a brown coarse powder; and for a small reward she shewed me this Plant; from the Seeds of which she prepared it. I do not know any other person who has used it; but she was successful; and it is well to have an *Ipecacuanha* of our own.

## 11. SEA-SIDE ORACH.

Plate 45. Fig. 2.

Character of the Species.

*Atriplex Litoralis.*

The Leaves are all linear, and undivided: the Stalk is firm and erect.

Fig. 2. *a b.*

THIS is an Annual, native of our dunghills; and frequent also by the sea-side: it grows to two feet high, and flowers in September. The Stalk is of a coarse green: the Leaves are of a bright greyish green: the Flowers are pale: and the Seeds are numerous, and of a dark brown.

## 12. LONG-FOOTSTALKED ORACH.

Plate 45. Fig. 3.

Character of the Species.

*Atriplex Pedunculata.*

The Stalk is tender, and divided: the Leaves are lanced, and obtuse: the Seed Cups are bell-shaped, and stand on long Footstalks.

Fig. 3. *a b c.*

THIS is an Annual, native of our sea-shores; a singular Plant, of a foot and a half high, flowering in August. The Stalk is of a pale green: the Leaves are of a good green: the Flowers are of a brownish green: the Seed Cups pale brown.

C L A S S



## C L A S S XXXIII.

Herbs which have no Petal to the Flower ; but with Cups of six Leaves

## G E N U S I.

## R H U B A R B.

## R H E U M.

Plate 46.

Character of the Genus.

The CUP has its six Leaves oblong, obtuse, united at the base ; and alternately larger and smaller.

The SEED is single, naked, and three-cornered, with sharp thin edges.

Plate 46. a b c.

## 1. R H A P O N T I C R H U B A R B.

Plate 46. Fig. 1.

Character of the Species.

Rheum Rhaponticum.

The Leaves are broad, and smooth ; and their Footstalks are furrowed underneath.

Fig. 1. a b.

THIS is a Perennial, native of Thrace ; a robust Plant, of two feet and a half high, flowering in June. The Stalk is of a bright green ; but often stained with a lively red : the Leaves are of a strong coarse green : the Flowers are white : the Seeds are of a chestnut brown.

The Stalks of the Root Leaves of this Species are made into tarts ; they have an agreeable sharpness like that of Sorrel ; and when well made, are pleasant and wholesome.

## 2. U N D U L A T E D R H U B A R B.

Plate 46. Fig. 2.

Character of the Species.

Rheum Undulatum.

The Leaves are oblong, waved, and downy ; and their Footstalks are not furrowed underneath.

Fig. 2. a b c.

THIS is a Perennial, native of China and Siberia ; a Plant of two feet and a half high, flowering in July. The Stalk is of a fresh green ; usually red at the joints : the Leaves are of a fine green : the Flowers are greenish yellow. This is a Plant of great importance ; the root of it being true Rhubarb, and the very kind most frequently brought to Europe. The root of the next Species is also brought, and is Rhubarb : they are sold indiscriminately.

## 3. P A L M A T E D R H U B A R B.

Plate 46. Fig. 3.

Character of the Species.

Rheum Palmatum.

The Leaves are divided in the manner of fingers.

Fig. 3. a b.

THIS is a Perennial, native of China ; a tall, and very noble Plant : it grows to ten feet high, and flowers in August. The Stalk is of a pale, but pleasing green : the Leaves are of a somewhat coarser green : the Flowers are pale, of a colour mixed of a pale green, white, and yellow. The Root of this is true Rhubarb : it comes mixed with the other kind ; and the Roots are usually the largest. We have been successful in the culture of this Plant in Europe of late years : a great deal has been raised in England ; a yet larger quantity in Scotland, under the care of the late excellent Duke of Athol ; and yet more in the Palatinate ; 'tis there the soil suits it best, and probably the Roots, both here and there, will in a few years be found to equal the Rhubarb of our druggists.

## 4. C O M P A C T



## 4. COMPACT RHUBARB.

Plate 47. Fig. 1.

Character of the Species.

Rheum Ribes.

The Leaves are lobated, obtuse, dented at the edges, and glossy.

Fig. 1. a b c.

THIS is a Perennial, native of Tartary and China; a robust and handsome Plant: it grows to two feet and a half high, and flowers in July. The Stalk is of a bright green; but usually stained with a brown or ruddy tinge: the Leaves are of a fine bright and lively green; and their form, as well as colour, please the eye: they are glossy and fair, and have a dented edge of white all round them; it seems a circle of a whitish membrane following the whole outline of the leaf: the Flowers are of a greenish white; sometimes with a slight tinge of yellowish; they hang down in thin-set spikes: the Seeds are brown.

## 5. CURRANT RHUBARB.

Plate 47. Fig. 2.

Character of the Species.

Rheum Ribes.

The Leaves are broad, cut into waved portions at the edge; and granulated all over the surface.

Fig. 2. a b c.

THIS is a Perennial, native of Mount Libanus, and of different parts of Persia: it is a robust Plant of near a yard in height, and flowers in July. The Stalk is of an olive green, stained with a fine purple: the Leaves are of a strong and fine green, with somewhat of a blueish tinge; and they are covered all over with a kind of rising protuberances, in the manner of warts; they are a long time folded together, but by degrees expand: the Flowers are of a greenish white: the Seeds are covered with a thick coat of a red juicy matter, which gives them an appearance of Currants.

BESIDE these five really and certainly distinct Species of Rhubarb, well known among us, there came over, two years since, Seeds of a Sixth Species, as it hitherto appears; and with them came the name of True Rhubarb. The Plants are in leaf at Baywater; and seem to promise a distinct Species: the Leaves are oblong, and even at the edge. Probably the name True Rhubarb justly belongs to this in common with some others; and that the roots are taken up as they are found, and all sent to Europe, after a very particular and careful drying, in common.



Character of the Genus.

The FLOWERS cover an oblong Ear or Spike.

The CUP has its six Petals permanent, roundish, cornered, and shielded.

The SEED is single and roundish, and lies deep in the ear, covered with a Film.

Plate 48. a b c.

## I. WATER DRAGONWEED.

Plate 48. Fig. 1.

Character of the Species.

Orontium Aquaticum.

The Leaf is oval, and has no visible ribs.

Fig. 1. a.

THIS is a Perennial, native of the wet places in Virginia and Carolina; a Plant of a foot high, flowering in August. The Leaf is of a strong, and somewhat yellowish green: the Stalk is of a pale green, stained with a ruddy brown: the Ear of Flowers is of a dusky greenish, with a tinge of brown: and the Flowers themselves are greenish white.

## GENUS III.

## SWEET FLAG. — ACORUS.

Plate 48.

Character of the Genus.

The FLOWERS cover a cylindric Ear.

The CUP has its six Leaves obtuse, and truncated; they stand hollow; and are thickened at the tops.

The CAPSULE is triangular, small at each end; and has one Cell, with several oval Seeds.

Plate 48. 2. a b c.

## I. AROMATIC SWEET FLAG.

Plate 48. Fig. 2.

Character of the Species.

Acorus Calamus.

The Leaves are grassy.

Fig. 2. a.

THIS is a Perennial, native of our ponds and ditches; and common also in Persia: it grows to a yard high, and flowers in August. The Leaves are of a fresh green, like Flags: the Ear is brownish: and the Flowers pale green: the Roots from warm climates are more fragrant than those which are gathered here; and are usually smaller; but the Plant is the same.

## CLASS XXXIV.

Herbs which have neither Cup nor Petals to the Flower; but only Filament and Style.

## GENUS I.

## MARESTAIL. — HIPPURIS.

Plate 48. Fig. 3.

Character of the Genus.

The FILAMENT is single, and stands on the receptacle of the Flower, with a split chive.

The SEED is single, roundish, and naked.

Plate 48. 3. a b c.

## I. COMMON MARESTAIL.

Plate 48. Fig. 3.

Character of the Species.

Hippuris Vulgaris.

The Leaves surround the Stalk in whorls.

Fig. 3. a.

THIS is a Perennial, native of our muddy, shallow waters: it grows to ten inches high, and flowers in August. The Stalk is of a greyish green: the Leaves are of a blue green: the Flowers are whitish green: and the Seeds are brown.

## GENUS II.

## WRACKROD. — ZANNICHELLIA.

Plate 48.

Character of the Genus.

There are male and female Flowers on the same Plant.

In the Male

The FILAMENT is oblong, upright, and has an entire oval chive.

In the Female

There are only four rudiments of Seeds, like horns.

The SEEDS are four; they are oblong, smallest at the ends, uneven, and covered with Films.

Plate 48. 4. a b c.

## I. MARSH WRACKROD.

Plate 48. Fig. 4.

Character of the Species.

Zannichellia Palustris.

The Leaves are linear.

THIS is an Annual, native of our shallow waters: it grows to eight inches high, and flowers in July. The Stalks are of a grey green: the Leaves are of a blue green: the Flowers are greenish white: and the Seeds are brown.



G E N U S III.  
C A T's T A I L. — T Y P H A.

Plate 49.

Character of the Genus.

There are male and female Flowers on the same Plant.

In the Male

The FLOWERS surround the top of the Ear.

The FILAMENTS are three; with oblong, hanging chives; and are surrounded with three broad bristles.

In the Female

The FLOWERS stand close round the body of the Ear.

The GERM is oval, placed upon a bristle, and surrounded with other bristles.

The SEED is single, oval, placed on a bristle, and surrounded with a fine down.

Plate 49. a b c d.

1. S W O R D - L E A V E D C A T's T A I L.

Plate 49. Fig. 1.

Character of the Species.

Typha Latifolia.

The Leaves are sword-shaped: the male and female Ears stand near one another.

Fig. 1. a b.

THIS is a Perennial, native of our pond and river sides; a Plant of five feet high, flowering in August. The Stalk is of a pale, but pleasing green, tinged with brown: the Leaves are of a yellowish green: the female Ear is pale brown, and the male Ear olive-coloured.

2. P L A N E - L E A V E D C A T's T A I L.

Plate 49. Fig. 2.

Character of the Species.

Typha Angustifolia.

The male and female Ear are placed at a distance: the Leaves are flat.

Fig. 2. a b.

THIS is a Perennial, native of our ponds and ditches; a Plant of a yard high: flowering in July. The Stalk is of a grey green: the Leaves are of a bluish green: the Flowers are brownish. The Leaves are often as broad as in the other Species; but they have not the line so rising in the middle.

G E N U S IV.  
W E T W E E D. — R U P P I A.

Plate 49. Fig. 5.

Character of the Genus

There is a small irregular Scabbard under the Flowers.

The CHIVES are few; they have no Filaments; but they stand in little clusters on the two sides of their Footstalk.

The SEEDS are naked; there are four or five; they stand on lengthened, separate Footstalks: they are oval, oblique, and have a rounded tip.

Plate 49. 2. a b c a.

1. U M B R E L L A ' D W E T W E E D.

Plate 49. Fig. 5.

Character of the Species.

Ruppia Maritima.

The Leaves are grassy.

Fig. 5. a b.

THIS is a Perennial, native of our sea-coasts; it lives in water: it grows to five or six inches high, and flowers in August. The Stalk is of a dusky green: the Leaves are of a strong good green: the Flowers are of a dusky brown.

G E N U S V.  
G R A S S W R A C K. — Z O S T E R A.

Plate 49. 3.

Character of the Genus.

There is a slender Ear buried in the base of a Leaf; and having the Flowers on one side.

The FILAMENTS are numerous; they stand alternately upon the germs of the Seeds.

The SEED is single, and oval.

Plate 49. 3. a b c.

1. M A R I N E G R A S S W R A C K.

Plate 49. Fig. 3.

Character of the Species.

Zostera Marina.

The Seeds have no Footstalks: and the Leaves are broad.

Fig. 3. a b.

THIS is a Perennial, native of our sea-coasts; a Plant of a foot high, flowering in August. The Leaves are of a strong green, but tinged with brown at the base: the Seeds also are brownish.

2. O C E A N I C G R A S S W R A C K.

Plate 49. Fig. 4.

Character of the Species.

Zostera Oceanica.

The Seeds have a little Footstalk: the Leaves are narrow.

Fig. 4. a b c.

THIS is a Perennial, native of the ocean; a weak Plant of five or six inches long, flowering in August. The Leaves are of a fine grass green: the Seeds are greenish.

C L A S S



THE VEGETABLE SYSTEM.  
C L A S S XXXV.

Herbs where the male and female Flowers grow on different Plants of the same Species.

O R D E R I. With the Flower of three Petals.

G E N U S I.

F R O G B I T. — H Y D R O C H A R I S.

Plate 50.

Character of the Genus.

In the male Plant

There is a SCABBARD of two oblong Leaves, containing three Flowers.

The CUP has three oval, hollow Leaves, thin at the edges.

The Flower is composed of three large rounded Petals.

In the Female Plant

There is no SCABBARD: the Flowers stand singly; and are of the same form as in the male.

The CAPSULE is oval, and has six Cells: the Seeds are numerous, and small.

Plate 50. *abc defg*.

I. W A T E R F R O G B I T.

Plate 50. Fig. 1.

Character of the Species.

The Leaves are rounded.

Hydrocharis Mafus Hanae.

Fig. 1. *a*.

THIS is a Perennial, native of our ditches, where it floats upon the water in vast quantities: it grows to about four inches high, and flowers in July. The Stalks are of a faint green, tinged with brown: the Leaves are of a fine shining dark green, stained variously with brown: the Flowers are white.

G E N U S II.

S C R E W W O R T. — V A L L I S N E R I A.

Plate 50. Fig. 2.

Character of the Genus.

In the male Plant

There is a SCABBARD, split into two parts, which are broad, short, and turned back.

The FLOWERS grow in a small oval Ear; each has three oval, reflex Segments.

In the female Plant

The SCABBARD is oblong, split at the end; and holds only one Flower.

The Cup has three oval Segments.

The PETALS are three; and are fixed in the mouth of the Cup.

The CAPSULE is long, cylindric, and has one Cell: the Seeds are numerous, and small.

Plate 50. 2. *abc def*.

I. S P I R A L S C R E W W O R T.

Plate 50. Fig. 2.

Character of the Species.

The Flowerstalk is turned spirally, like a cork-skewer.

Vallisneria Spiralis.

Fig. 2. *ab*.

THIS is a Perennial, native of Italy; a Plant perfectly wonderful: it rises to various heights, and flowers in July. The Leaves are of a very fine green: the spikes of male Flowers are scarce two inches and a half raised from the mud; but the female Flowerstalk is as long as the depth of the water, extending and contracting itself as that rises or falls; this is green and tender: the Scabbard is brown: the Flower is of a very fine crimson; this always lies flat upon the surface of the water, and receives the fecundating matter of the male Flower, which floats like dust, when loosened from its chives below.

O R D E R II. With the Flower of four Petals.

G E N U S I.

S I L K W E E D. — N A I A S.

Plate 50. Fig. 3.

Character of the Genus.

In the male Plant

The CUP is cylindric, and divided into two Segments, which turn back.

The FLOWER has four oval, obtuse Segments; and one Chive without a Footstalk.

In the Female

There is neither CUP nor Petal, but only the rudiment of a Fruit.

The CAPSULE is oval, and the Seeds are numerous, oval, and small.

Plate 50. 3. *abcd*.

I. S E A S I L K W E E D.

Plate 50. Fig. 3.

Character of the Species.

The Leaves are edged with weak Spines.

Naias Marina.

Fig. 3. *ab*.

THIS is a Perennial, a sea Plant; native of the Channel, and other places: it grows to a foot long, but is weak, and floats about in the water; and produces its obscure Flower in July. The Stalk is of an olive-brown: the Leaves are of the same brwnish green, bright and glossy: the Flowers are white.

G E N U S



# THE VEGETABLE SYSTEM. 51

## GENUS II.

### CRAKEWEED. — EMPETRUM.

Plate 51.

Character of the Genus.

In the male Plant

The CUP has three oval, permanent Leaves; and three oblong Petals, with three Filaments.

In the female

The FLOWER is as in the male, only there is a Germ with open tips instead of Filaments.

The FRUIT is a rounded, but depressed berry, with nine Seeds.

Plate 51. a b c d.

#### 1. WHITE CRAKEWEED.

Plate 51. Fig. 1.

Character of the Species.

Empetrum Album.

The Stalk is firm and hairy: the Leaves are linear. Fig. 1. a b.

THIS is a Perennial, native of Portugal; a woody Plant, of a foot and half high, flowering in July. The Stalks are brown: the Leaves are of a faint green: the Flowers are white: the Fruit is a white berry.

#### 2. BLACK CRAKEWEED.

Plate 51. Fig. 2.

Character of the Species.

Empetrum Nigrum.

The Stalk is weak, and downy; and the Leaves are oval. Fig. 2. a b.

THIS is a Perennial, native of the high moors of Derbyshire and Yorkshire; a low Plant: it scarce exceeds a foot in height, and flowers in May and June. The Stalks are of a reddish brown: the Leaves are of a fresh green: the Flowers are white: and the Berries are black.

## FAMILY I.

### ORDER III. With Flowers of four Petals.

#### GENUS I.

#### ROSE ROOT. — RHODIOLA.

Plate 51. 2.

Character of the Genus.

In the male Plant

The CUP has four short hollow Segments.

The FLOWER has four oblong Petals; and four short Glands, with an abortient germ.

In the Female

The FLOWER has four short Petals; and the same Glands and Cup as in the male; and four fertile Germs

The CAPSULES are four, oblong, and lanced: and the Seeds are numerous and round.

Plate 51. 2. a b c d e.

#### 1. SWEET-SCENTED ROSE ROOT.

Plate 51. Fig. 3.

Character of the Species.

Rhodiola Rosea.

The Leaves are jagged.

Fig. 3. a.

THIS is a Perennial, native of our northern mountains; a pretty Plant, of eight inches high, flowering in August. The Stalk is brown: the Leaves are of a fresh and pleasing green: the Flowers are crimson: the Root in spring smells like a rose.

## FAMILY I.

### ORDER IV. With Flowers of five Petals.

#### GENUS I.

#### PASSIONWEED. — IRESINE.

Plate 51. 3.

Character of the Genus.

In the male Plant

The CUP has two Leaves; and the Flower has five Petals, and five Glands, and five Filaments.

In the female Plant

The CUP has two Leaves: the Flower five Petals; and a Germ with two heads.

The FRUIT is a Capsule, with downy Seeds.

Plate 51. 3. a b c d.

#### 1. CELOSIAN PASSIONWEED.

Plate 51. Fig. 4.

Character of the Species.

Iresine Celosia.

The Leaves are hearted.

Fig. 4. a.

THIS is an Annual, native of Virginia and Jamaica; a Plant of two feet high, flowering in August. The Stalk is of a yellowish green: the Leaves are of a bright green: the Flowers are greenish white.



## FAMILY II.

ORDER I. Without Petals, and with a Cup of one Leaf.

## GENUS I.

MISLETOE. — VISCUM.

Plate 52.

Character of the Genus.

In the male Plant

The CUP has four equal oval-pointed Segments; and four Chives without Filaments.

In the female Plant

The CUP is very small; but of the same form as in the male.

The FRUIT is a juicy berry, with one hearted Seed.

Plate 52. *a b c d e*.

## 1. WHITE MISLETOE.

Plate 52. Fig. 1.

Character of the Species.

Viscum Album.

The Leaves are lanced and obtuse: the Stalk is forked: and the Fruit stands in the division.

Fig. 1. *a b c*.

THIS is a Perennial, frequent with us, on old apple-trees, and many other kinds: it grows to two feet in height, a branchy spreading Bush; and flowers in August: and its Berries are in perfection in the midst of winter. The Stalks and Leaves are of a yellowish green: the Flowers are yellowish: and the Berries are white.

## 2. RED MISLETOE.

Plate 52. Fig. 2.

Character of the Species.

Viscum Robrum.

The Leaves are lanced, and obtuse: and the Berries stand in long single spikes from their bosoms.

Fig. 2. *a b*.

THIS is a Perennial, native of Carolina; where it grows on various trees, as common Mistletoe with us: it rises to a foot and a half high, and flowers in August. The Stalk is of a faint green: the Leaves are of a stronger green: the Flowers are whitish: and the Berries are red.

## 3. PURPLE MISLETOE.

Plate 52. Fig. 3.

Character of the Species.

Viscum Purpureum.

The Leaves are inverted oval: the Fruit stands in branched clusters in their bosoms.

Fig. 3. *a b*.

THIS is a Perennial, native of Carolina, and of Saint Christopher's; a Plant of two feet high, growing on various trees, and flowering in July. The Stalk is of a fresh green: the Leaves are of a fine green: the Flowers are whitish: and the Berries purple.

## 4. OPUNTIAN MISLETOE.

Plate 52. Fig. 4.

Character of the Species.

Viscum Opuntoides.

The Stalk is flattened, jointed, and proliferous; and there are no Leaves.

Fig. 4. *a b*.

THIS is a Perennial, native of Jamaica; a very singular Plant, of a foot and half high, flowering in June. The Stalk is of an olive green; darker at the joints: the Flowers are of a yellowish white: and the Berries are yellow.

## 5. WHORLY MISLETOE.

Plate 52. Fig. 5.

Character of the Species.

Viscum Verticillatum.

The Leaves are oval, and obtuse: the Flowers stand in branched whorly spikes round the Stalk.

Fig. 5. *a b*.

THIS is a Perennial, frequent on different trees in Jamaica and Barbadoes; it grows to two feet high, and flowers in August. The Stalk is of a faint green, tinged with brown: the Leaves are of a faint green: the Flowers are yellowish: and the Berries scarlet; they are oval, and each has three points at its end.

## 6. GROUND MISLETOE.

Plate 52. Fig. 6.

Character of the Species.

Viscum Terrestre.

The Stalk is tender, and the Leaves are lanced: the Flowers stand in simple spikes.

Fig. 6. *a b*.

THIS is a Perennial, native of Pennsylvania; not found on trees, but in the boggy grounds; it rises to a foot and half high, and flowers in August. The Stalk is of an olive-green, tinged with brown: the Leaves are of a coarse green: the Flowers are whitish: and the Berries olive-coloured. Perhaps a close inspection of the living Plant will separate this last from the other Species; whose manner of growth is so very different.

GENUS



G E N U S II.  
H E M P. — C A N N A B I S.

Plate 53.

Character of the Genus.

In the male Plant

The CUP has five oblong Segments; and five Filaments.

In the female Plant

The CUP is an undivided Leaf, opening at the side; and has no Filaments, but two Styles.

The SEED is oval, and the Cup closes over it.

Plate 53. a b c d.

I. C O M M O N H E M P.

Plate 53. Fig. 1.

Character of the Species.

The Leaves are fingered.

Cannabis Sativa.

Fig. 1. a

THIS is an Annual, native of the East Indies; but cultivated almost every where for the sake of cordage: it grows to five feet high, and flowers in August. The Stalk is of a grey green, usually spotted with brown: the Leaves are of a faint green: the Flowers are greenish white: and the Seeds pale brown.

G E N U S III.  
C A S S E R I N E — O S Y R I S.

Plate 53. 2.

Character of the Genus.

In the male Plant

The CUP is turbinated, and cut into three oval, equal, pointed Segments, with three Filaments, and a glandular Rim.

In the female

The CUP is formed as in the male; but instead of Filaments, has a turbinated Germ.

The Fruit is a flattened Berry, with one large Seed.

Plate 53. 2. a b c d.

I. W H I T E C A S S E R I N E.

Plate 53. Fig. 2.

Character of the Species.

The Leaves are linear.

Osyris Alba.

Fig. 2. a.

THIS is a Perennial, native of Spain, and other warm countries: it grows to two feet and a half high, and flowers in August. The Stalks are hard, and reddish: the Leaves are of a fresh, but faint green: the Flowers are greenish white: and the Berries are also white.

G E N U S IV.  
H O P — H U M U L U S.

Plate 53. 3.

Character of the Genus.

In the male Plant

The CUP is deep cut into five oval, hollow Segments, and has five Filaments.

In the female Plant

There is a filmy Ear, containing eight Flowers.

The CUP is an oval Film, with a small Germ with two Styles.

The SEED is round and coated, and is covered by the base of the Cup.

Plate 53. 3. a b c d e.

I. C O M M O N H O P.

Plate 53. Fig. 3.

Character of the Species

The Leaf is trilobate, and deep divided.

Humulus Lupulus.

Fig. 3. a.

THIS is a Biennial, native of our hedges; where it clambers among the bushes to fifteen feet in height; or cultivated, or assisted by poles, to five-and-twenty, or more: it flowers in July. The Stalk is of a coarse faint green: the Leaves are of a dusky green: the Flowers are yellowish.



## G E N U S V.

## H E M P W E E D — D A T I S C A.

Plate 54.

## Character of the Genus.

In the male Plant

The CUP is cut almost to the base into five narrow, equal, pointed Segments; and has ten Chives.

In the female

The CUP is the same as in the male; but instead of Chives has an oblong Germ with three Styles.

The FRUIT is a three-pointed Capsule, with numerous small Seeds.

Plate 54. *a b c d*.

## 1. H A I R Y H E M P W E E D.

Plate 54. Fig. 1.

## Character of the Species.

*Datisca Hirta.*

The Stalk is hairy.

Fig. 1. *a*.

THIS is a Perennial, native of Pennsylvania; a Plant of six feet high, flowering in August. The Stalk is of a coarse green, stained toward the base with brown; and hairy: the Leaves are of a deep strong green: the Flowers are greyish white.

## 2. S M O O T H H E M P W E E D.

Plate 54. Fig. 2.

## Character of the Species.

*Datisca Cannabina.*

The Stalk is smooth.

THIS is a Perennial, native of the Greek Islands; a Plant of five feet high, flowering in July. The Stalk is of a pale green, stained with brown: the Leaves are of a light and somewhat yellowish green: the Flowers are greenish white.

## G E N U S VI.

## S P I N A G E — S P I N A C H I A.

Plate 54. 2.

## Character of the Genus.

In the male Plant

The CUP is deep cut into five oblong, obtuse, hollow Segments; and has five Filaments.

In the female Plant

The CUP is cut into four unequal Segments; two smaller than the others, and has a rounded Germ.

The SEED is single and rounded, and is inclosed in this Cup, which turns brown.

Plate 54. 2. *a b c d e*.

## 1. G A R D E N S P I N A G E.

Plate 54. Fig. 3.

## Character of the Species.

*Spinachia Oleracea.*

The Leaves are deeply ferrated: the Flowers have no Footstalks.

Fig. 3. *a b*.

THIS is an Annual, native of Italy, but now in all kitchen gardens: it rises to two feet and a half high, a robust upright Plant; and flowers in July. The Stalk is of a strong green; the Leaves are of a deep green, and juicy: the Flowers are greenish white, but they turn brown as the Seeds ripen.

## 2. W I L D S P I N A G E.

Plate 54. Fig. 4.

## Character of the Species.

*Spinachia Fera.*

The Leaves are deeply ferrated: the Flowers have Footstalks.

Fig. 4. *a b*.

THIS is an Annual, native of Siberia; a Plant of two feet high, flowering in September. The Stalk is of a faint green, tinged with brown: the Leaves are of a light green: the Flowers are greenish white.

F A M I L Y



## FAMILY III.

## ORDER II. Having the Cup of three Leaves.

## GENUS I.

## MERCURY.

## MERCURIALIS.

Plate 55.

Character of the Genus.

In the male Plant

The CUP is composed of three lanced Leaves, spread wide open; and has nine Filaments.

In the female Plant

The CUP has three oval Leaves, with a rounded Germ.

The FRUIT is a rounded Capsule of two Parts, with two Cells.

The SEEDS are one in each Cell, large, and roundish, with a point.

Plate 55. *a b c d.*

## 1. PERENNIAL MERCURY.

Plate 55. Fig. 1.

Character of the Species.

*Mercurialis Cynocrambe.*

The Stalk does not branch: the Leaves are rugged. Fig. 1. *a b.*

THIS is a Perennial, native of our hedge-bottoms; a fresh-looking Plant, of early spring, but poisonous. The Stalk is of a light green, sometimes tinged with brown: the Leaves are of a beautiful fresh green: the Flowers are whitish: and the Seed-vessels olive-coloured.

## 2. DOUBTFUL MERCURY.

Plate 55. Fig. 2.

Character of the Species.

*Mercurialis Ambigua.*

The Stalk is branchy: the Leaves are smooth: the Flowers and Fruit stand in whorls. Fig. 2. *a b c.*

THIS is an Annual, native of Spain, a Plant of a foot high, flowering in May. The Stalk is of a coarse green, stained more or less with brown: the Leaves are of a strong green: the Flowers are whitish: and the Fruit is brown. It is very like the next Species, but for the disposition of its Flowers.

## 3. ANNUAL MERCURY.

Plate 55. Fig. 3.

Character of the Species.

*Mercurialis Annua.*

The Stalk is branchy: the Leaves are smooth: the male Flowers stand in spikes. Fig. 3. *a b c.*

THIS is an Annual, common in our waste grounds: it scarce exceeds ten inches in height; and flowers in June. The Stalk is of a yellowish green: the Leaves are of a faint green: the Flowers are whitish green: the Fruit is brown.

## 4. DOWNY MERCURY.

Plate 55. Fig. 4.

Character of the Species.

*Mercurialis Tomentosa.*

The Stalk is hard: and the Leaves are downy. Fig. 4. *a b.*

THIS is a Perennial, native of France and Spain; a hard-stalked branching Plant, of eight inches high, flowering in August. The Stalk is brown: the Leaves are of a yellowish green: the Flowers are greenish.



## FAMILY II.

## ORDER III. With a Cup of six Leaves.

## GENUS I.

## SMILACE. — SMILAX.

Plate 56.

## Character of the Genus.

In the male Plant

The CUP is hollow, bell-shaped, and has its six Leaves oblong, and close, but not united at the base; and has six Chives.

In the female

The CUP is of the same form; with a Germ instead of Chives.

The Fruit is a globular Berry, with three Cells; and two rounded Seeds in each.

## 1. RUGGED SMILACE. — Plate 56. Fig. 1.

## Character of the Species.

Plate 56. *a b c d*.*Smilax Aspera.*

The Stalk is angulated, and thorny: the Leaves are hearted, and have nine ribs, and dents with thorns.

Fig. 1. *a b c*.

THIS is a Perennial, native of Italy, Sicily, and Spain, and of the East: it clammers to the height of seven feet, and flowers in June. The Stalk is coarse green: the Thorns are brown: the Leaves are of a deep green: the Flowers are white: and the Berries of a purplish brown.

## 2. TALL SMILACE. — Plate 56. Fig. 2.

## Character of the Species.

*Smilax Excelsa.*

The Stalk has sharp ridges, and thorns: the Leaves are hearted; they have nine ribs, and no thorns

Fig. 2. *a b c*.

THIS is a Perennial, native of Syria; a clambering Plant, that runs to twelve feet high, and flowers in July. The Stalk and Thorns are of a dusky brown: the Leaves are of a strong green; with very dark ribs: the Flowers are white: the Berries are purple.

## 3. CEYLON SMILACE. — Plate 56. Fig. 3.

## Character of the Species.

*Smilax Zeylanica.*

The Stalk is high-ridged, and thorny: the lower Leaves are hearted; the upper oblong; and they have no thorns.

Fig. 3. *a b c*.

THIS is a Perennial, native of Ceylon; a Plant that climbs to seven feet high, with a bent, and angulated Stalk, of an olive brown: the Leaves are of a bright green: the Flowers are white: the Berries black.

## 4. SARSAPARILLA SMILACE. — Plate 56. Fig. 4.

## Character of the Species.

*Smilax Sarsaparilla.*

The Stalk is sharply rib'd, and thorny: the Leaves are oval, with three ribs blunt, with a point; but have no other thorns.

Fig. 4. *a b c*.

THIS is a Perennial, native of Peru, and of Virginia; a Plant that climbs to eight feet high, and flowers in August. The Stalk is of a bright brown: the Leaves are of a light greyish green: the Flowers are white: and the Berries purple: the Root is the famous drug Sarsaparilla.

## 5. CHINA SMILACE. — Plate 56. Fig. 5.

## Character of the Species.

*Smilax China.*

The Stalk is cylindric, and thorny: the Leaves are hearted at the point, and oval: they have five ribs, and no thorns.

Fig. 5. *a b c*.

THIS is a Perennial, native of China and Japan; it grows to twelve feet high, when it meets support; and flowers in July. The Stalk is of a deep, but bright brown: the Leaves are of a very faint green: the Flowers are white: and the Berries purple: the Root is the Radix China of the shops.

## 6. ROUND-HEARTED SMILACE. — Plate 56. Fig. 6.

## Character of the Species.

*Smilax Rotundifolia.*

The Stalk is cylindric, and thorny: the Leaves are hearted, with a round base; and have seven ribs, and no thorns.

THIS is a Perennial, native of Canada; it grows to five feet high, and flowers in September. The Stalk is of a dusky olive-colour: the Leaves are of a very fine green: the Flowers are white: and the Berries of a reddish purple.

## 7. BAY-LEAVED SMILACE. — Plate 56. Fig. 7.

## Character of the Species.

*Smilax Laurifolia.*

The Stalk is rounded, and thorny: the Leaves are broad lanced, and have no thorns.

Fig. 7. *a b c*.

THIS is a Perennial, native of Carolina and Virginia; a Plant of six feet high, and flowers in August. The Stalk is of a chestnut brown: the Leaves are of a fine strong green, but with a bluish tinge: the Flowers are greyish white: and the Berries black.

## 8. BLACK BRYONY-LEAVED SMILACE. — Plate 56. Fig. 8.

## Character of the Species.

*Smilax Tamnoides.*

The Stalk is cylindric, and thorny: the Leaves are oblong, and hearted; they have three ribs, and no thorns.

Fig. 8. *a b c*.

THIS is a Perennial, native of Carolina, Virginia, and Pennsylvania; a Plant of ten feet high, when well supported, flowering in August. The Stalk is of a fine bright brown: the Leaves are of a fresh green: the Flowers are white: the Berries purple.

## 9. FADING



## 9. FADING SMILACE.

Plate 57. Fig. 1.

Character of the Species.

*Smilax Caduca.*

The Stalk is cylindric, and thorny: the Leaves are oval; they have three ribs, and no thorns.

Fig. 1. *a b c.*

THIS is a Perennial, native of Canada; a Plant that climbs to seven feet high, and flowers in August. The Stalk is of a dusky brown: the Leaves are of a fresh and pleasing green; but they soon fade, and fall off early: the Flowers are white: and the Berries purple.

## 10. SQUARE-STALK'D SMILACE.

Plate 57. Fig. 2.

Character of the Species.

*Smilax Bona Nox.*

The Stalk is four-square, and not thorny: the Leaves have an edge of thorny eye-lashes.

Fig. 2. *a b c.*

THIS is a Perennial, native of Carolina; a Plant that climbs to eight feet high, and flowers in June. The Stalk is of a heavy brown: the Leaves are of a fresh but coarse green: the Flowers are white: and the Berries purple.

## 11. TENDER SMILACE.

Plate 57. Fig. 3.

Character of the Species.

*Smilax Herbacea.*

The Stalk is angulated, but has no thorns: the Leaves are oval; they have seven ribs, and no thorns.

Fig. 3. *a b c.*

THIS is a Perennial, native of Virginia and Maryland; a Plant that climbs to six feet high, and flowers in September. The Stalk is tender, and green: the Leaves are of a faint but pleasing green: the Flowers are white: and the Berries black.

## 12. LANC'D SMILACE.

Plate 57. Fig. 4.

Character of the Species.

*Smilax Lanceolata.*

The Stalk is cylindric: the Leaves are lanced; and there are no thorns upon the Plant.

Fig. 4. *a b c.*

THIS is a Perennial, native of Virginia and Canada; a Plant of eight feet high, flowering in August. The Stalk is dusky: the Leaves are of a strong green: the Flowers are pearly white: the Berries are scarlet.

## 13. BASTARD-CHINA SMILACE.

Plate 57. Fig. 5.

Character of the Species.

*Smilax Pseudo China.*

The Stalk is cylindric, and smooth: the lower Leaves are hearted: the upper Leaves are oblong, and have five ribs; and there are no thorns.

Fig. 5. *a b c.*

THIS is a Perennial, native of Virginia, and of Jamaica; a Plant of seven feet high, flowering in August. The Stalk is of a fine brown: the Leaves are of a strong green: the Flowers are of a blueish white: the Berries purple. The Plant has a large tuberous Root, of a reddish hue, which has been taken for the China Root; but 'tis really distinct.



G E N U S II.  
B L A C K B R Y O N Y.  
T A M U S.

Plate 58.

Character of the Genus.

In the male Plant

The CUP has its six Leaves lanced, and spread out at the top; and has six Filaments.

In the female

The CUP is of one Leaf, cut into six narrow Segments, and has six dotted Glands.

The FRUIT is an oval Berry, of three Cells; and in each are two oval Seeds.

Plate 58. *a b c d e*.

1. COMMON BLACK BRYONY.

Plate 58. Fig. 1.

Character of the Species.

Tamus Communis.

The Leaves are heart-shaped, and undivided at the edge.

Fig. 1. *a*.

THIS is a Perennial, native of our hedges; a Plant that climbs to twelve or fourteen feet in height, and flowers in July. The Stalk is of a faint green: the Leaves are of a very fine strong green, bright, and glossy: the Flowers are of a greyish white: and the Berries are first red and afterwards black. The Root of this Plant is of great use in the Gravel: it deserves to be more known.

2. CRETIC BLACK BRYONY.

Plate 58. Fig. 2.

Character of the Species.

Tamus Cretica.

The Leaves are deeply cut into three parts.

Fig. 2. *a*.

THIS is a Perennial, native of Crete, and other of the Greek Islands: it grows to six feet high, and flowers in June. The Stalk is of a light olive-colour, stained with brown: the Leaves are of a faint, but pleasing green: the Flowers are greenish white: and the Berries crimson.

G E N U S III.

Y A M.  
D I O S C O R E A.

Plate 58. 2.

Character of the Genus.

In the male

The CUP is bell-shaped: its six Leaves are lanced, and united at the base; and there are in it six Filaments.

In the female

The CUP is formed as in the male, but has a Germ instead of Filaments.

The FRUIT is a large triangular Capsule, with three Cells: the Seeds are two in each Cell, and are flatted and edged.

Plate 58. 2. *a b c d e*.

1. FIVE-LEAV'D YAM.

Plate 58. Fig. 3.

Character of the Species.

Dioscorea Pentaphylla.

The Leaves stand five upon a Footstalk, and spread out like fingers.

Fig. 3. *a*.

THIS is a Perennial, native of the East Indies; a weak, but woody-stalked Plant, that rises to nine feet high when supported, and flowers in June. The Stalk is of a beautiful ruddy brown: the Leaves are of a fine deep green: the Flowers are greenish white: and the Capsules are light brown.

2. THREE-LEAV'D YAM.

Plate 58. Fig. 4.

Character of the Species.

Dioscorea Triphylla.

The Leaves are broad lanced, and stand three upon a joint.

Fig. 4. *a*.

THIS is a Perennial, native of Malabar; a Plant that clambers to the height of twelve feet, and flowers in July. The Stalk is olive-coloured, stained with purple: the Leaves are of a deep but very fine blueish green: the Flowers are greenish white: the Capsules are pale brown.

3. THORNY



## 3. THORNY YAM.

Plate 59. Fig. 1.

Character of the Species.

*Dioscorea Aculeata.*

The Leaves are hearted: the Stalks are thorny; and produce fleshy Bulbs.

Fig. 1. *abc.*

THIS is a Perennial, native of Malabar; a Plant that climbs to the height of ten feet, and flowers in August. The Stalk is of a faint brown: the Leaves are of a fine strong green: the Flowers are olive-coloured: and the Fruit is of a good brown: the Bulbs are of the colour of the Stalk.

## 4. WINGED YAM.

Plate 59. Fig. 2.

Character of the Species.

*Dioscorea Alata.*

The Stalk is winged, with filmy edges; and has Bulbs: the Leaves are heart-shaped.

Fig. 2. *abc.*

THIS is a Perennial, native of the East Indies; a Plant which rises to ten feet high, and flowers in July. The Stalk is red: the Leaves are of a fine green: the Flowers are of a faint greenish white: the Capsules are chestnut-coloured. This is cultivated in the West Indies for the food of the Negroes; but is not native there.

## 5. BULBIFEROUS YAM.

Plate 59. Fig. 3.

Character of the Species.

*Dioscorea Bulbifera.*

The Leaves are hearted: the Stalk is smooth, and naked, and bears large Bulbs.

Fig. 3. *abc.*

THIS is a Perennial, native of the East Indies; a Plant that grows to twelve feet high, flowering in August. The Stalk is of a dusky brown: the Leaves are of a strong green: the Flowers are whitish: and the Capsules brown: the Bulbs are of a dusky brown.

## 6. CULTIVATED YAM.

Plate 59. Fig. 4.

Character of the Species.

*Dioscorea Sativa.*

The Leaves are heart-shaped, and alternate: the Stalk is rounded, and smooth.

Fig. 4. *abc.*

THIS is a Perennial, native of the East Indies; but cultivated in the West for its Roots: it grows to eleven or twelve feet high, if supported; or otherwise trails to nearly the same length upon the ground. The Stalk is of a ruddy brown: the Leaves are of a full green: the Flowers are greenish white: the Capsules are brown.

## 7. HAIRY YAM.

Plate 59. Fig. 5.

Character of the Species.

*Dioscorea Villosa.*

The Leaves are hearted, alternate, and in pairs; downy underneath, and ending in a weak Spine.

Fig. 5. *abc.*

THIS is a Perennial, native of Virginia and Florida; a Plant of ten feet long, flowering in August. The Stalk is brown: the Leaves are of a faint green on the upper side, and hairy underneath: the Flowers are very small, and whitish: the Capsules are brown.

## 8. OPPOSITE-LEAV'D YAM.

Plate 59. Fig. 6.

Character of the Species.

*Dioscorea Oppositifolia.*

The Leaves are oval, and pointed; and all stand in pairs.

Fig. 6. *abc.*

THIS is a Perennial, native of the East Indies: it grows to twelve feet high, and flowers in June. The Stalk is brown: the Leaves are of a deep green, and beautifully veined: the Flowers are white: and the Capsules are brown.



## G E N U S IV.

## R A Y W O R T.

## R A I A N A.

Plate 60.

Character of the Genus.

In the male Plant

The CUP is bell-shaped: its six Leaves are oblong, pointed, white within, and united at the base; and there are six Filaments.

In the female Plant

The CUP is formed as in the Male: there is a flatted, edged Germ in the place of Filaments.

The FRUIT is roundish, with a vast Wing: the Seed is single, and oval.

Plate 60. *ab c d e f g.*

## 1. S P E A R - L E A V ' D R A Y W O R T.

Plate 60. Fig. 1.

Character of the Species.

Raiana Haftata:

The Leaves are spear-shaped, and a little hearted at the base: the Flowers stand in Spikes.

Fig. 1. *ab.*

THIS is a Perennial, native of Saint Domingo; a climbing Plant, which will rise, when supported, to the height of fourteen feet; and flowers in July. The Stalk is of an olive green, stained with a deep purple: the Leaves are of a strong, but somewhat blueish green: the Flowers are whitish within: and the Seeds, with their broad Sail or Wing, are of a ruddy brown.

## 2. H E A R T - L E A V ' D R A Y W O R T.

Plate 60. Fig. 2.

Character of the Species.

Raiana Cordifolia.

The Leaves are heart-shaped, and have seven ribs.

Fig. 2. *ab.*

THIS is a Perennial, native of South America; a beautiful and noble Plant: it climbs on trees to the height of fifteen feet; and flowers in August. The Stalk is of a lively brown: the Leaves are of the most perfectly fresh and bright green: the Flowers are greenish on the outside, and white within: and the winged Seeds are of a fine deep brown.

## 3. F I V E - L E A V ' D R A Y W O R T.

Plate 60. Fig. 3.

Character of the Species.

Raiana Quinquefolia.

The Leaves are oblong oval, and grow five together: the Flowers are spiked.

Fig. 3. *ab.*

THIS is a Perennial, native of South America; a singular and very handsome Plant. It grows to seven feet high, and flowers in July. The Stalk is of a glowing reddish brown: the Leaves are of a fine strong and clear green: the Flowers are white: and the Fruit pale brown.

Thus has this extensive Work closed naturally with a Genus named after our Countryman, the truly great and worthy Mr. RAY; who, on his own private and scanty bottom, did wonders in the improvement of the science; and would have known no equal, had his labours been blessed, and honoured with such support and countenance as has been showered upon the Author of these volumes; — had it been his better fate to have been born to flourish under the Patronage of the Excellent and Noble the EARL of BUTE.



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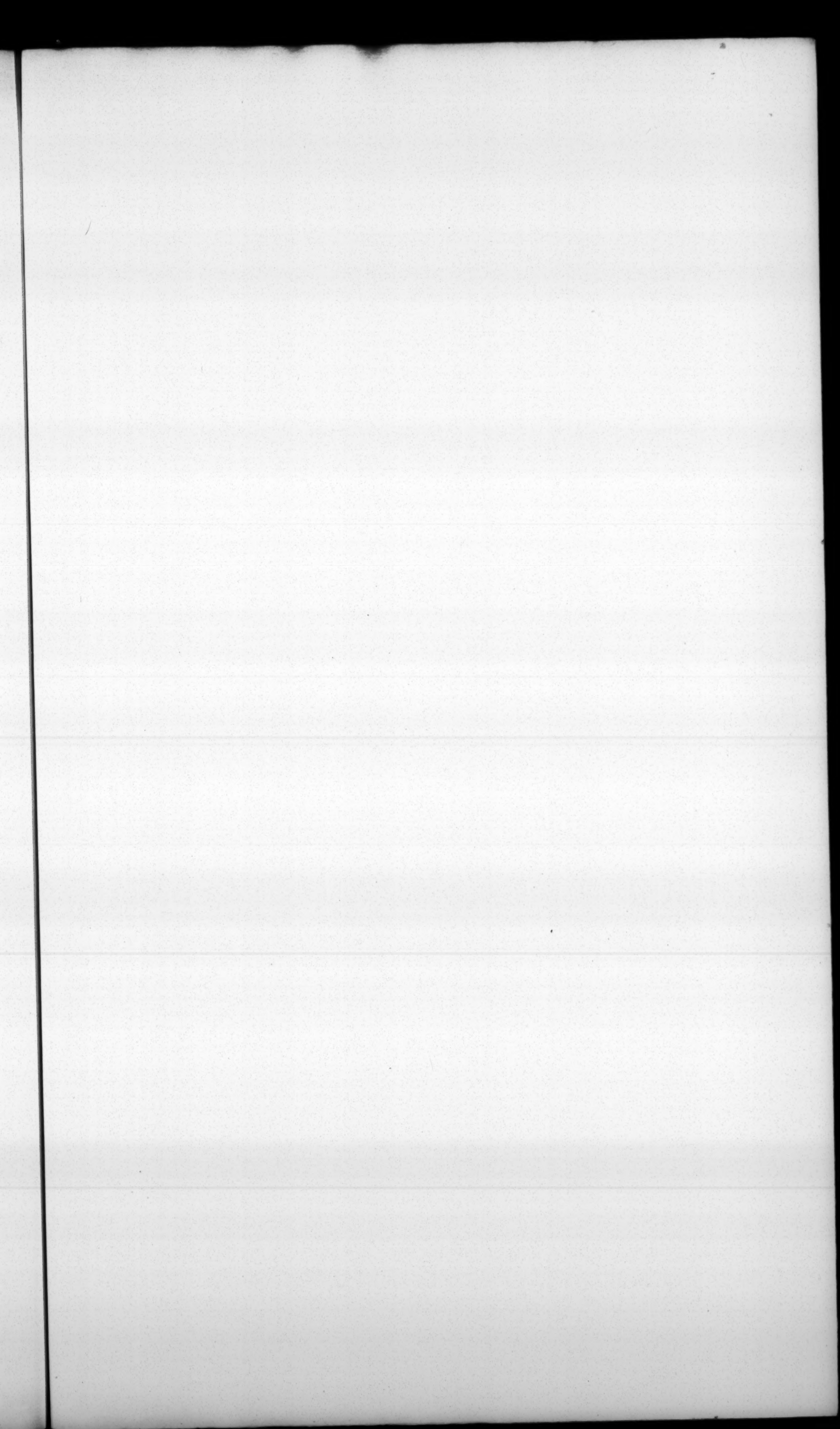
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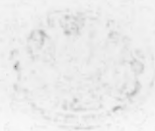














TRAGIA

TRAGINY

Generic Character



*Mercurine Tragium*

*Chamalean Tragium*

*Stinging Tragium*







CAMPHOROSMA

CAMPHORELLE

a b c d  
*Generic Character*



*Montpelier Camphorelle*



*Stupa David Camphorelle*



*Smooth Camphorelle*



*Branchy Camphorelle*





Al  
ge



CHRYSOSPLENIUM

GOLDEN SAXIFRAGE

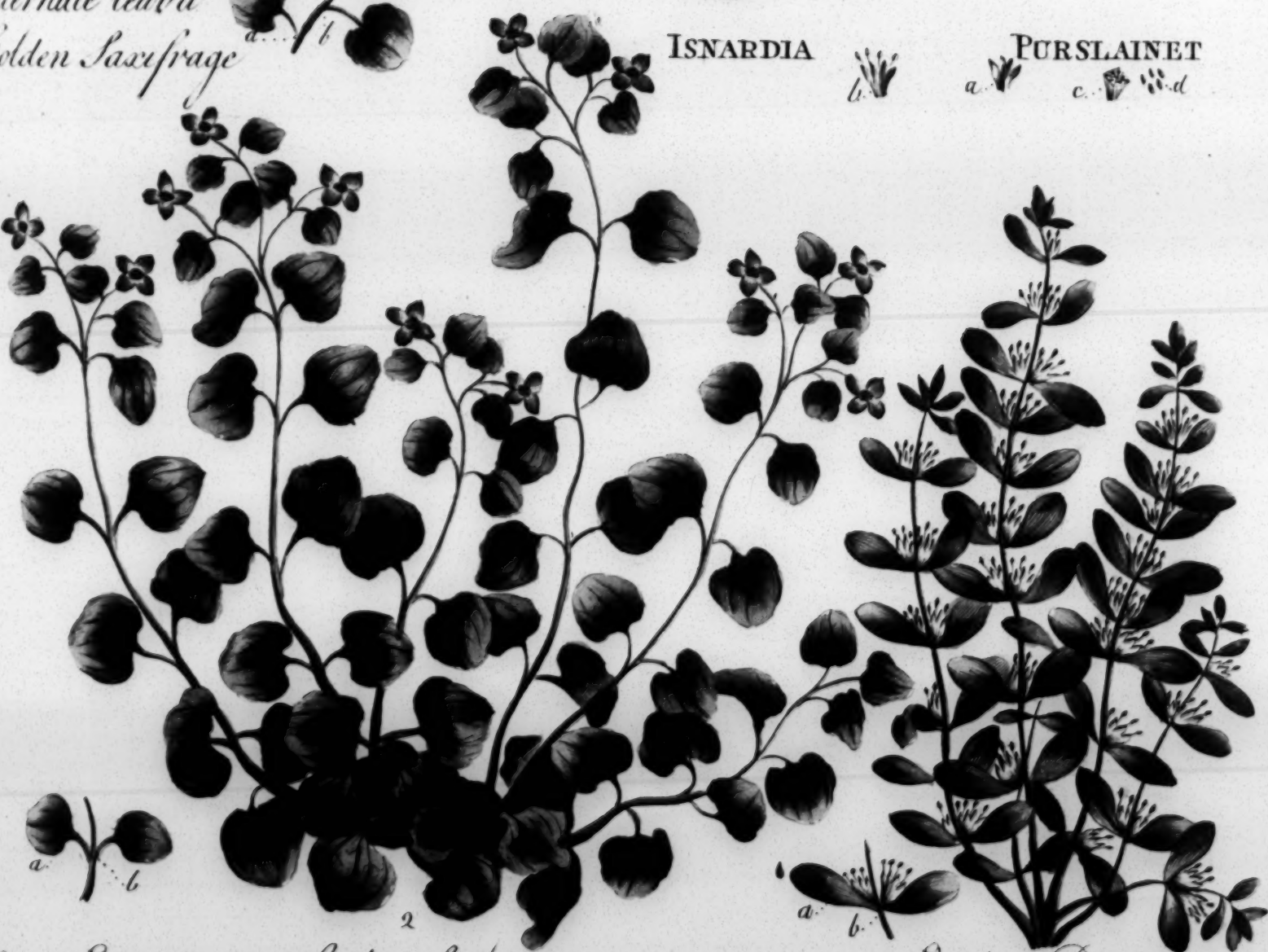
*Generic Character*



*Alternate leaved  
Golden Saxifrage*

ISNARDIA

PURSLAINET



*Opposite leaved Golden Saxifrage*

*Oval Purslainet*







PAR. ETARIA.

*Generic Character.*

PELLITORY of the WALL.

*Page 1.*











Judaic Pellitory of the Wall.

Small Leaved Pellitory of the Wall. Cretan Pellitory of the Wall.







a b c d

General Character.



Star leaved  
Linweed. a



Alpine Linweed. a 2



Shaded Linweed. a 3



Corded Linweed. a 3





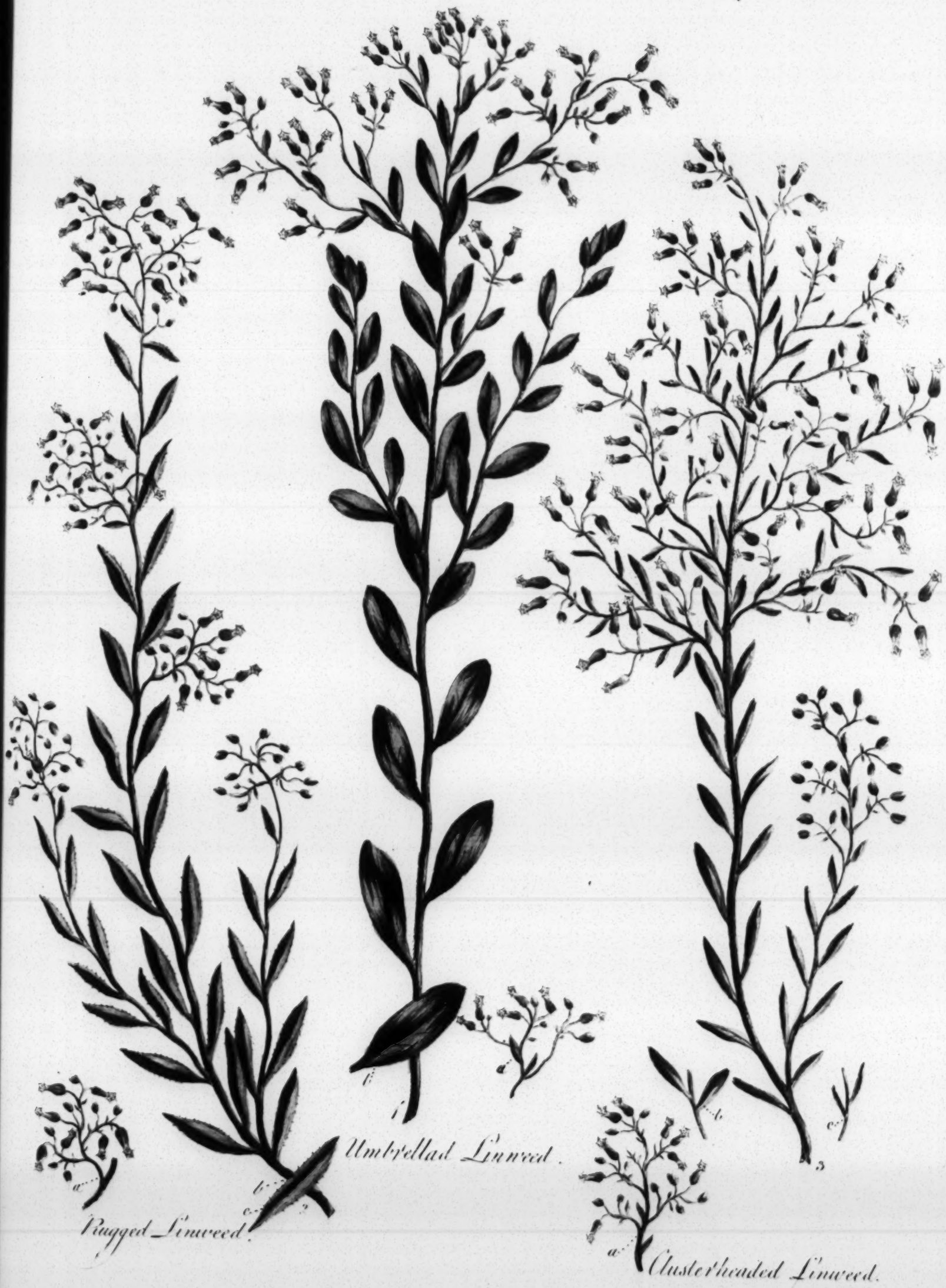




THE SIUM.

LINWEED.

2









FERNIARIA



FRUIT



*Farnia purpurea*



*Farnia purpurea*



*Farnia purpurea*







SCLERANTHUS.

KNAWEL.

  
*Generic Character.*



*Perennial Knapweed.*



*Annual Knapweed.*

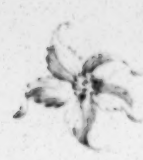


*Fruitful Knapweed.*









Pl. II.

AIZOON.

AYEWORT.

Pl. II.



Wedge leaved hyewort

Spanish hyewort.

Mustard hyewort.







RICINUS

Generic Character

PALMA CHRISTI



16  
1  
*Canarian Palma Christi*

2  
*Common Palma Christi*

3  
*Map Palma Christi*







1711 SCHEUCHZERIA

*Generic Character*

PALECHAMPIA  
*Generic Character*

HOPWEED  
LIZARDS TAIL  
SAURURUS  
*Generic Character*

1711



Marsh Scheuchzeria

Climbing Hopweed

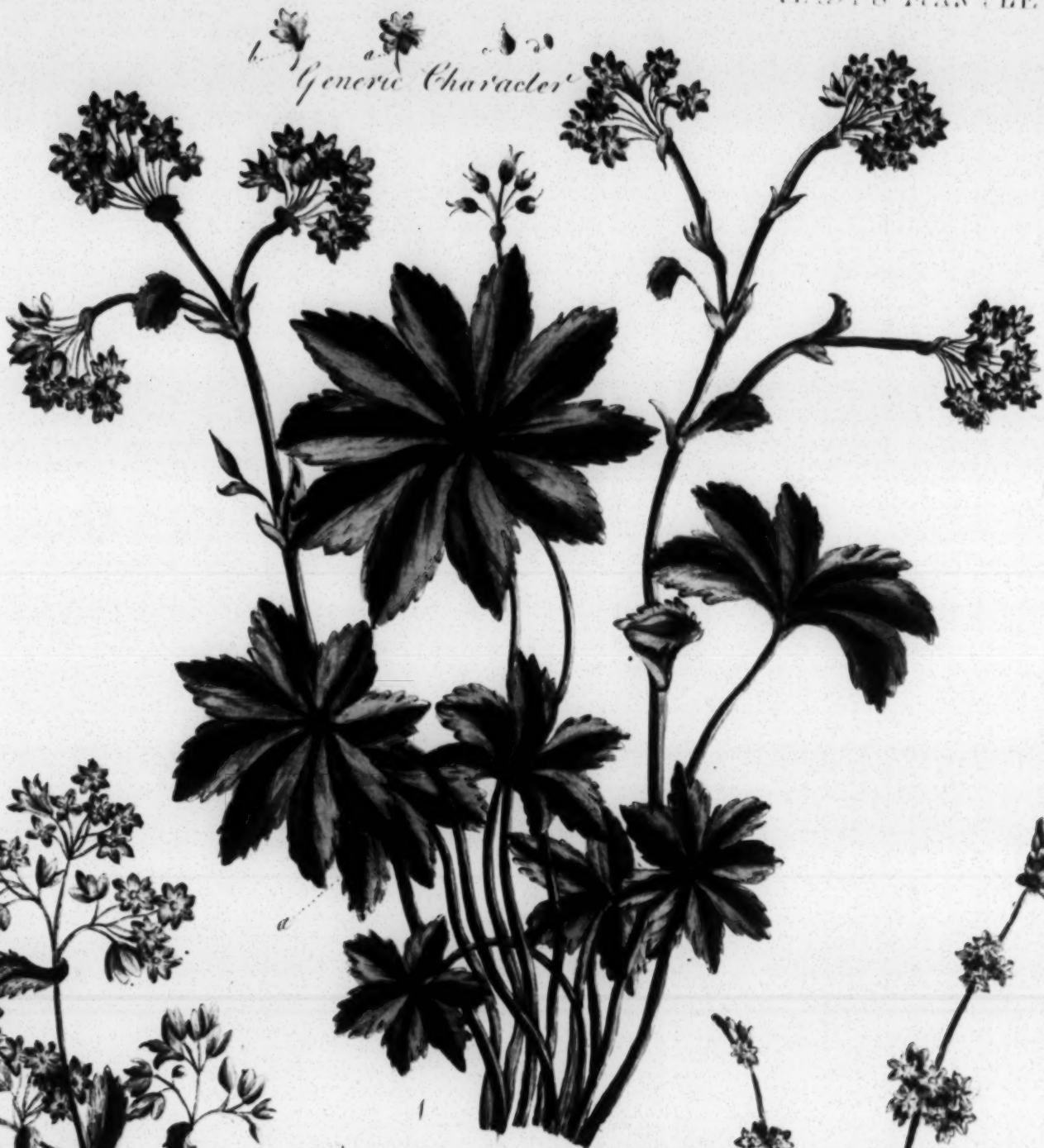
Drooping Lizards Tail







*Generic Character*



*Common Ladys Mantle*



*Cinquefoil Ladys Mantle*

*Alpine Ladys Mantle*







*Generic Character*

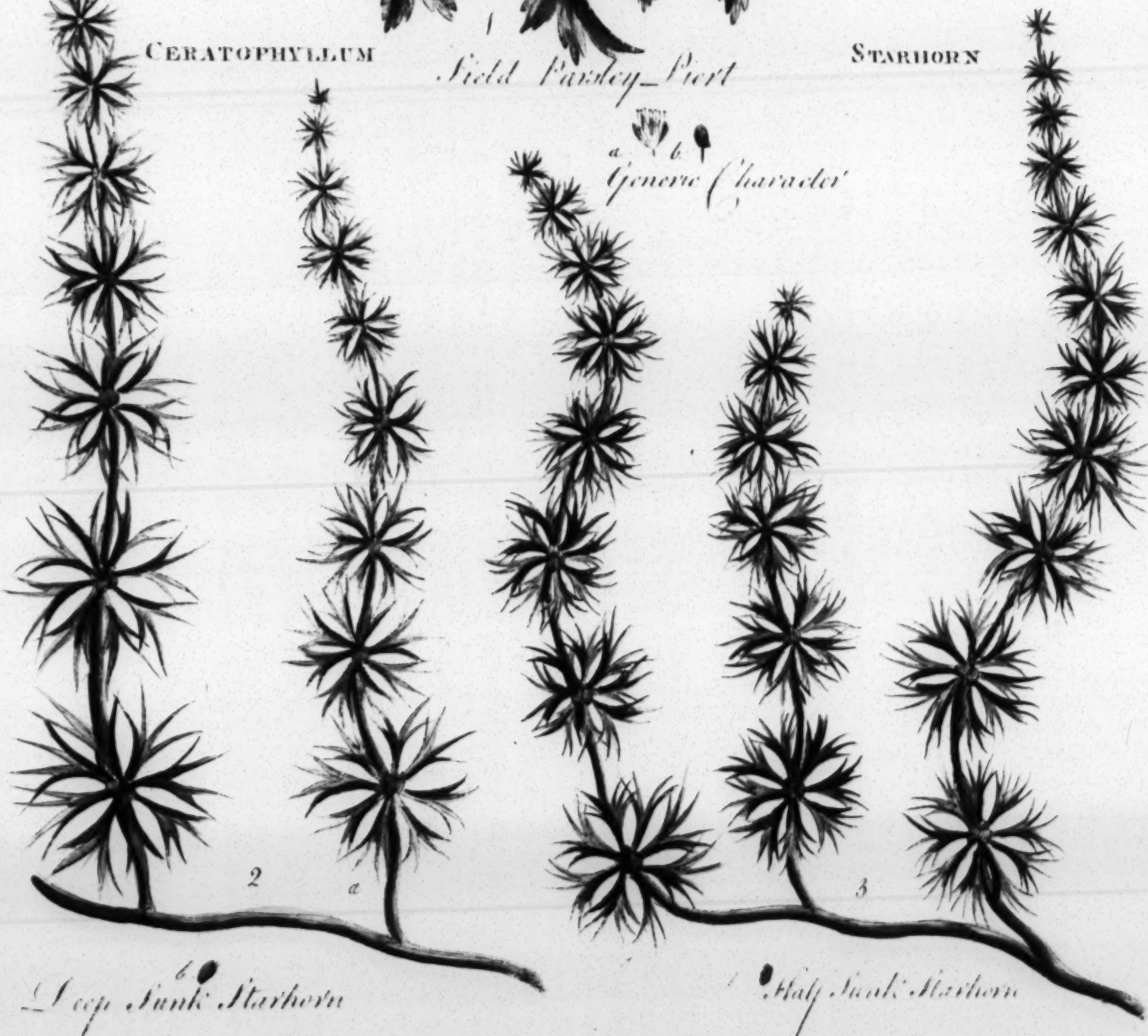


CERATOPHYLLUM

*Field Parsley - Port*

STARHORN

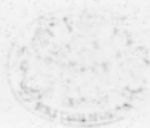
*Generic Character*



*Deep Sink Starhorn*

*Half Sink Starhorn*







PIPER.

PEPPER.

Pl. 16.

*Generic Character.*



*Black Pepper.*

*Malabar Pepper.*

*Beetle Pepper.*











17

Re  
L





PIPER



*Reticulated Pepper.*



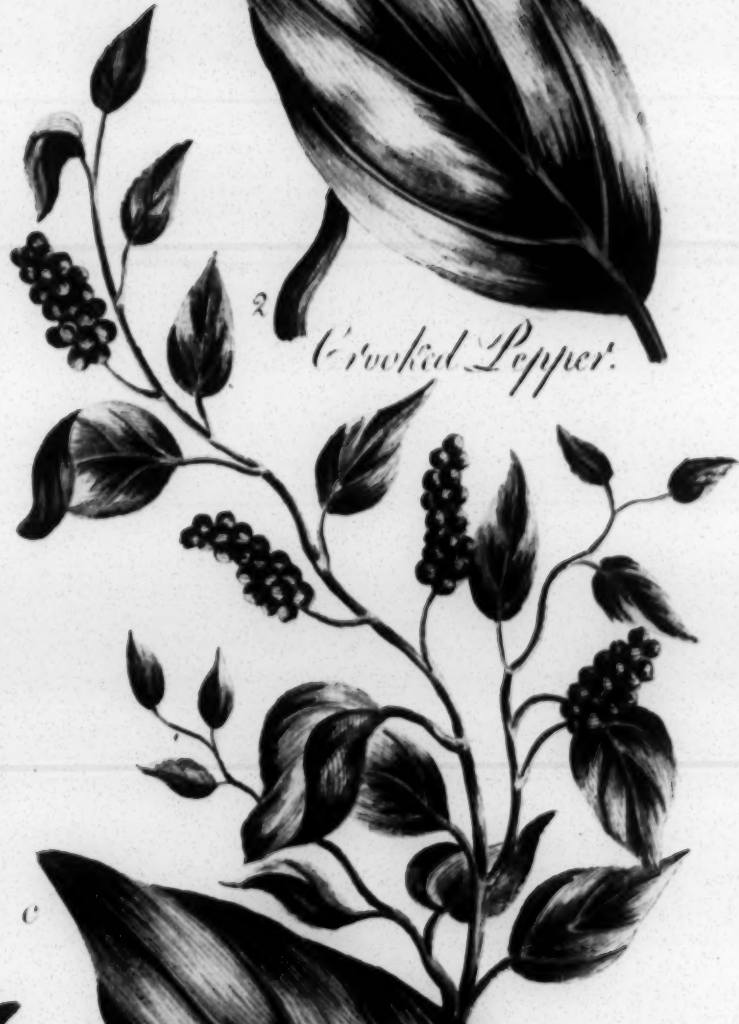
*Clear Pepper.*

PEPPER

3



*Cracked Pepper.*



*Pointed Pepper.*







PIPER

PEPPER

†



*Round leaved Pepper*

















172. PETIVERIA

*Generic Character*



*Garlick  
Nightshade*

NIGHT SHADOW



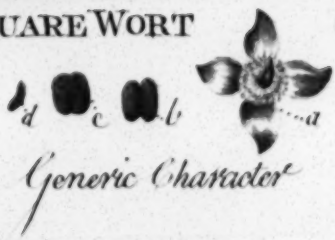
*Purple  
Nightshade*

TETRAGONIA

SQUARE WORT

CYNOMORION

DOGS TOOL



*Generic Character*



*Tender Square Wort*



*Crimson Dogs Tool*







URTICA

NETTLE

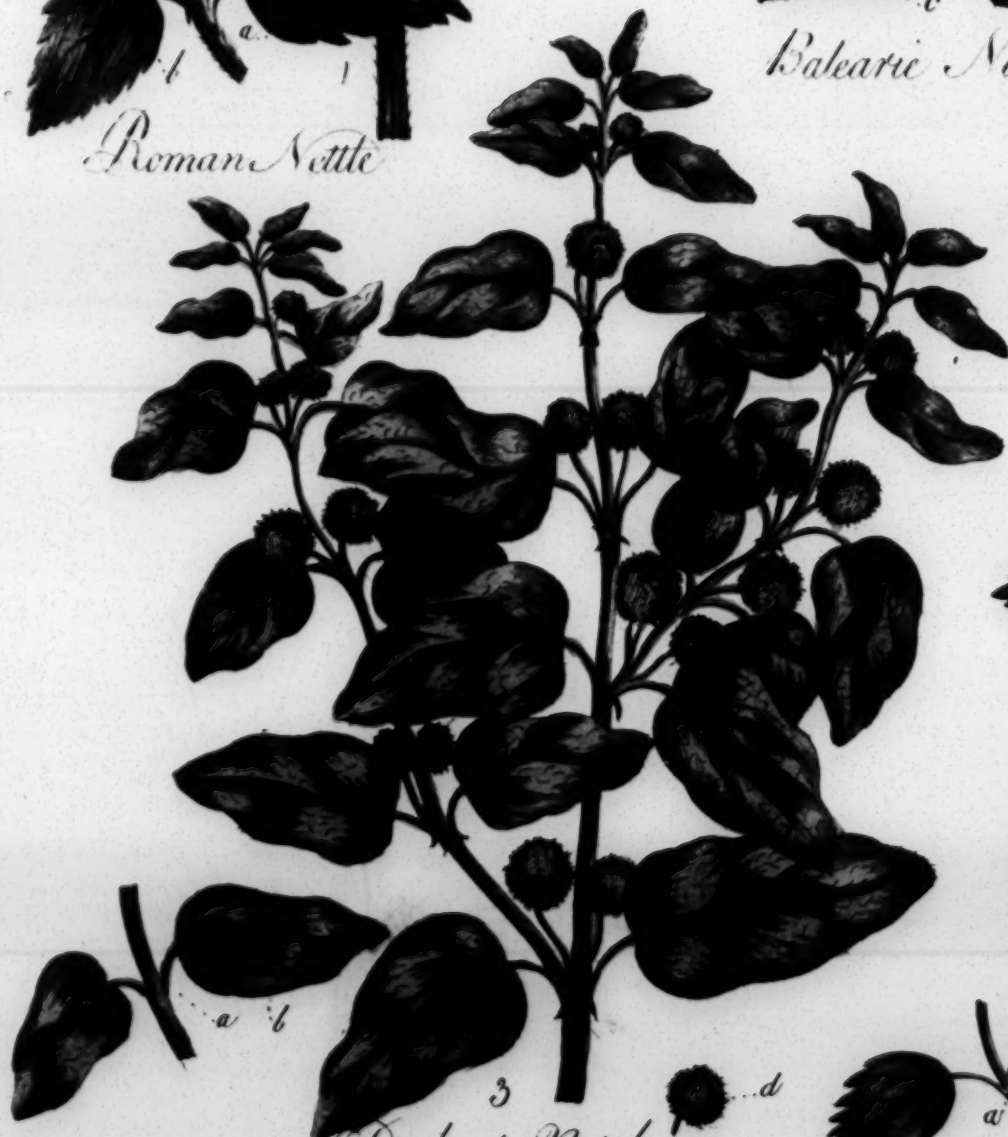
*Generic Character*



*Roman Nettle*



*Balearic Nettle*



*Dodarts Nettle*



*Lion Nettle*









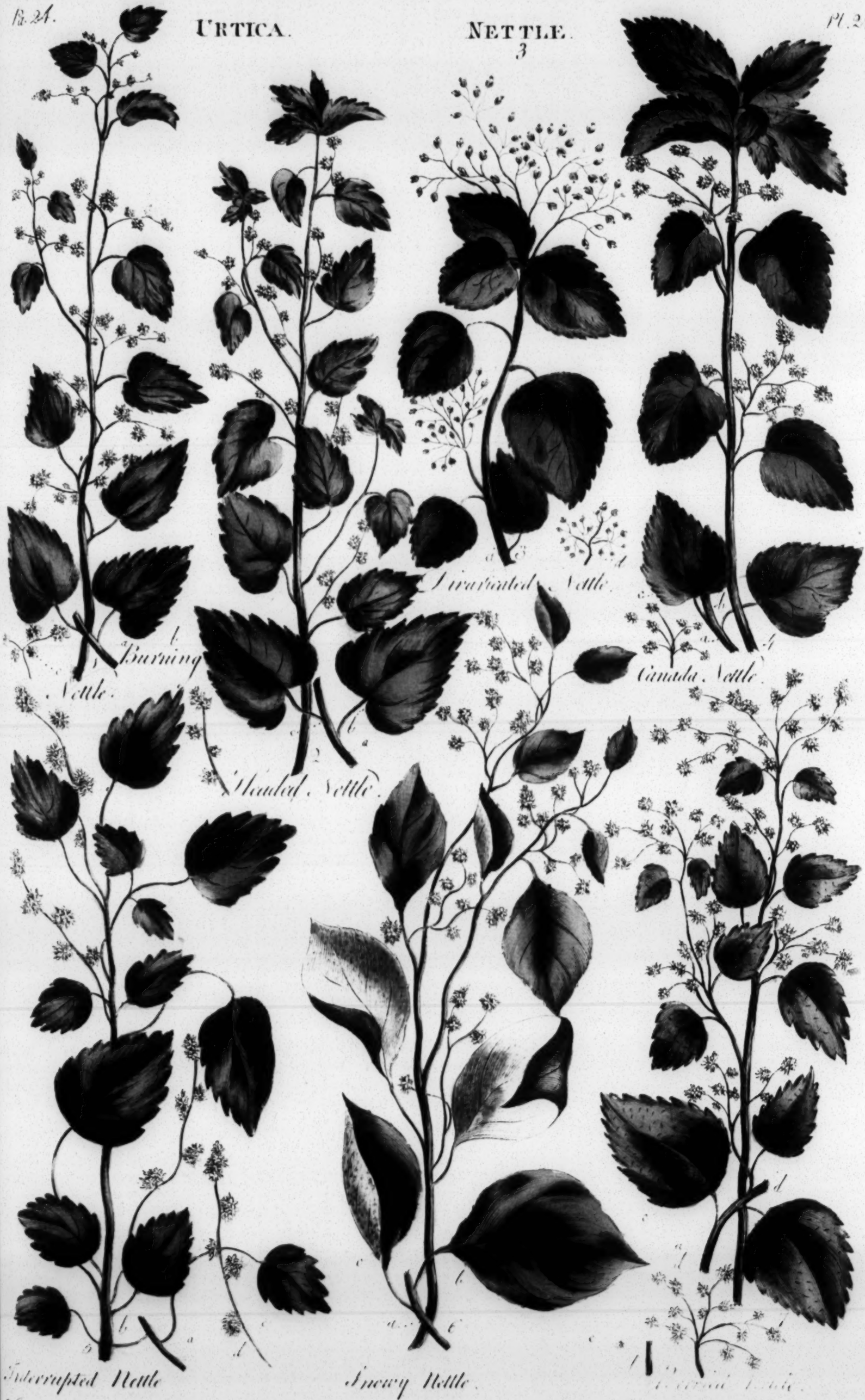






URTICA.

NETTLE.  
3

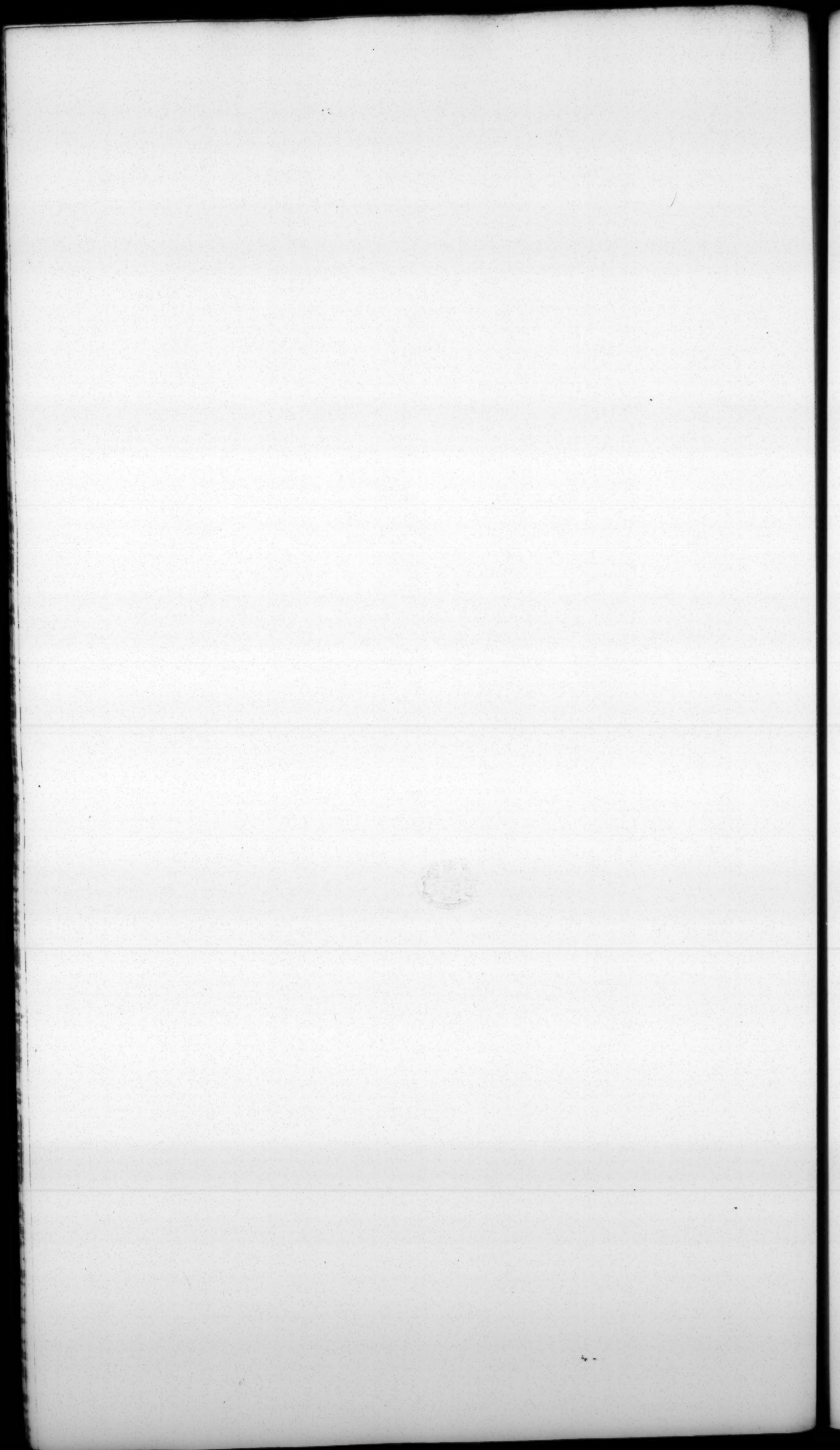


Interrupted Nettle  
26

Sneaky Nettle.

Hairy Nettle.







ORTEGIA

RUSH MADDER

GLANUS

CAPONWEED

Pa 13

*Generic Character*

*Generic Character*

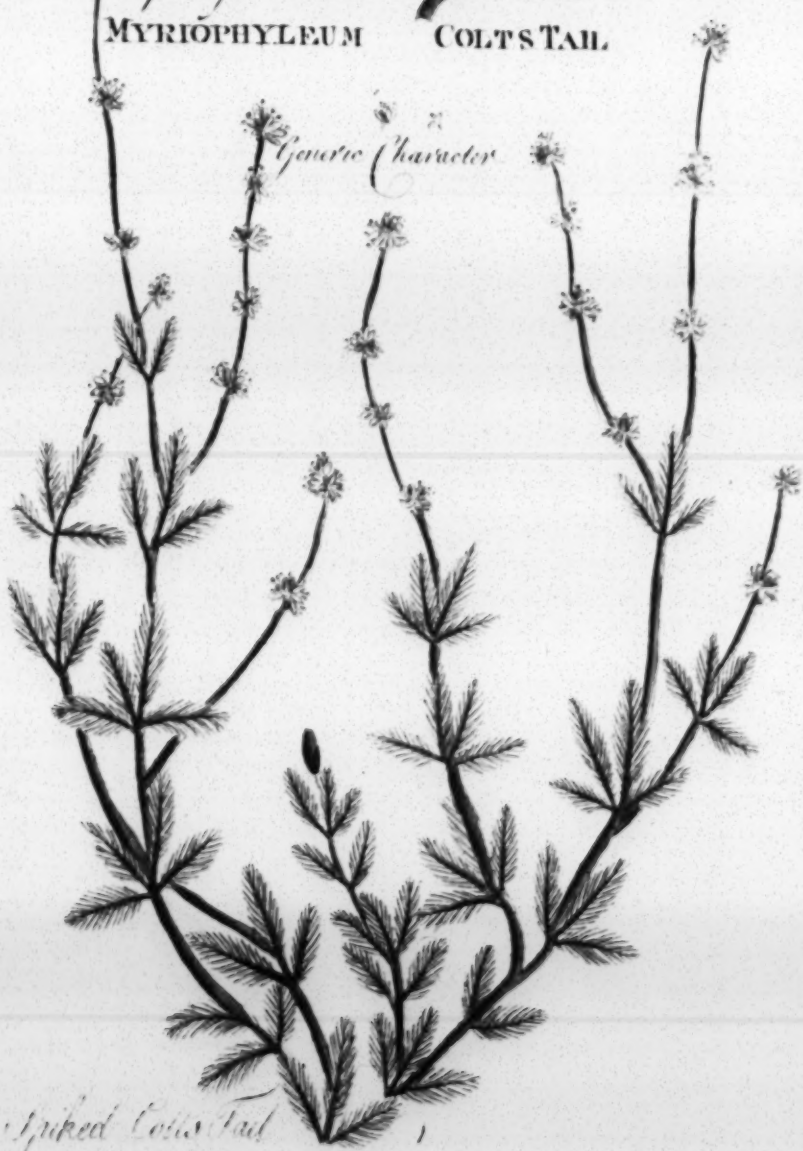


*Spanish Rush*  
MYRIOPHYLEUM

*Madder*  
COLT'S TAIL

*Generic Character*

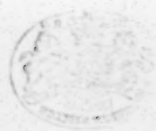
*Parslain Caponweed*



*Spiked Colts Tail*

*Spiked Colts Tail*







ACALYTHOR

WOLF'S MERCURY

Page 6

Generic Character.



Virginia Wolf's Mercury

Twigg's Wolf's Mercury

Indian Wolf's Mercury

Southern Wolf's Mercury

ACALYTHOR

MINUARETTE

QUERIA

PELLUSANE

Forked Minuartella

Field Minuartella

Mountain Minuartella

Canada's Mellusane







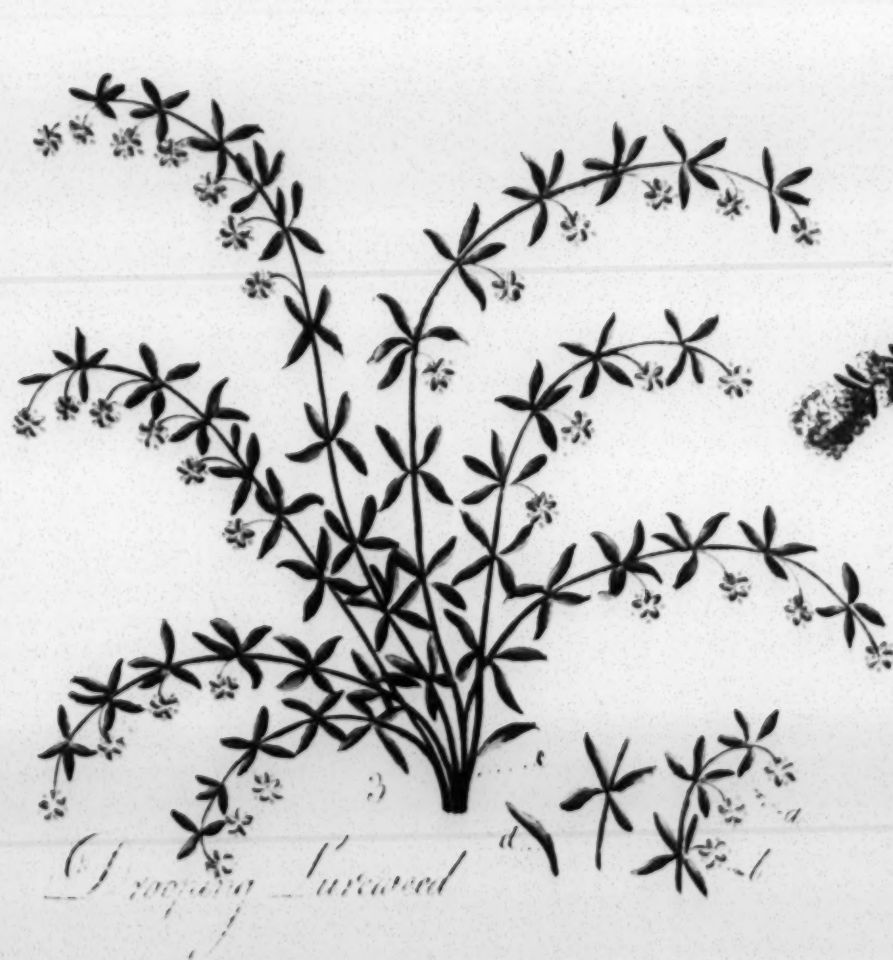
*Generic Character*



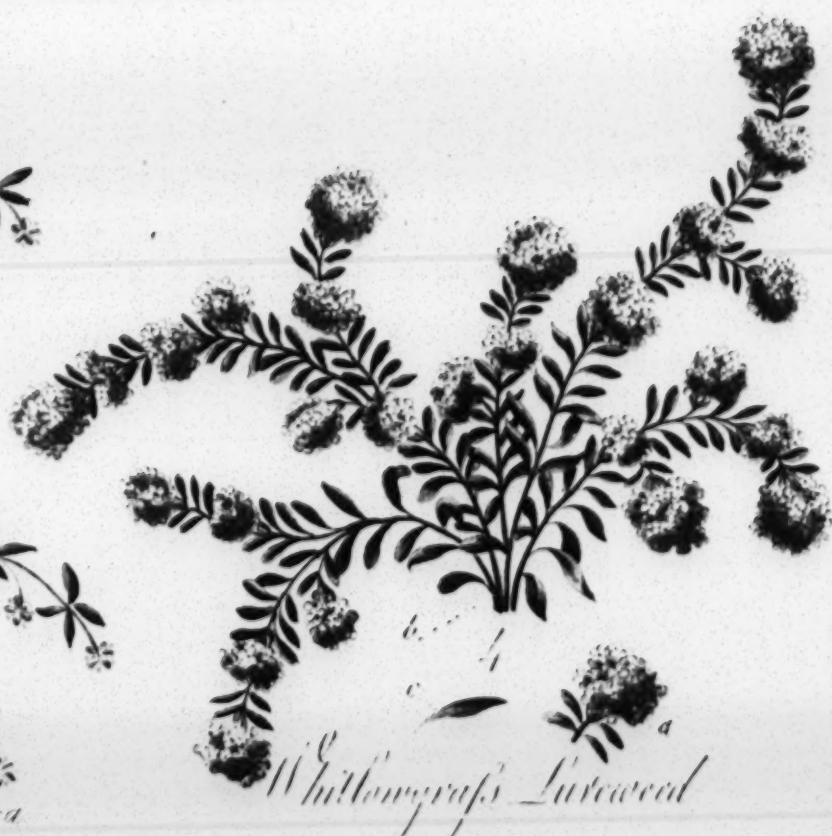
*Whorled Lureweed*



*Shrubby Lureweed*



*Drooping Lureweed*



*Whittowgraps Lureweed*







ILLUSTRATION

LUREWEED



Italian Lureweed



Achyranthine Lureweed



Pinetops Lureweed









*Ficus Lureweed*



*Siphall Lureweed*



*Vermiculate Lureweed*



*Chickweed leaved Lureweed*







*Generic Character*









CHEENOPODIUM

GOOSEFOOT

Pa 31



*White Goosefoot*



*Green Goosefoot*



*Mangel-wurzel Goosefoot*



*Botrychium Goosefoot*







CHENOPODIUM

GOOSEFOOT

3



1 Ambrosian Goosefoot  
2 Multifid Goosefoot

3 Warm Goosefoot

4 Grey Goosefoot

5 Sinking Goosefoot

6 Many Seeded Goosefoot

7 Broom Goosefoot

8 Sea Goosefoot

9 Bearded Goosefoot







*Generic Character*

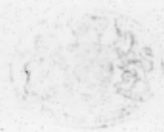


*Common Beet*

*Cichane Beet*


*Sea Beet*





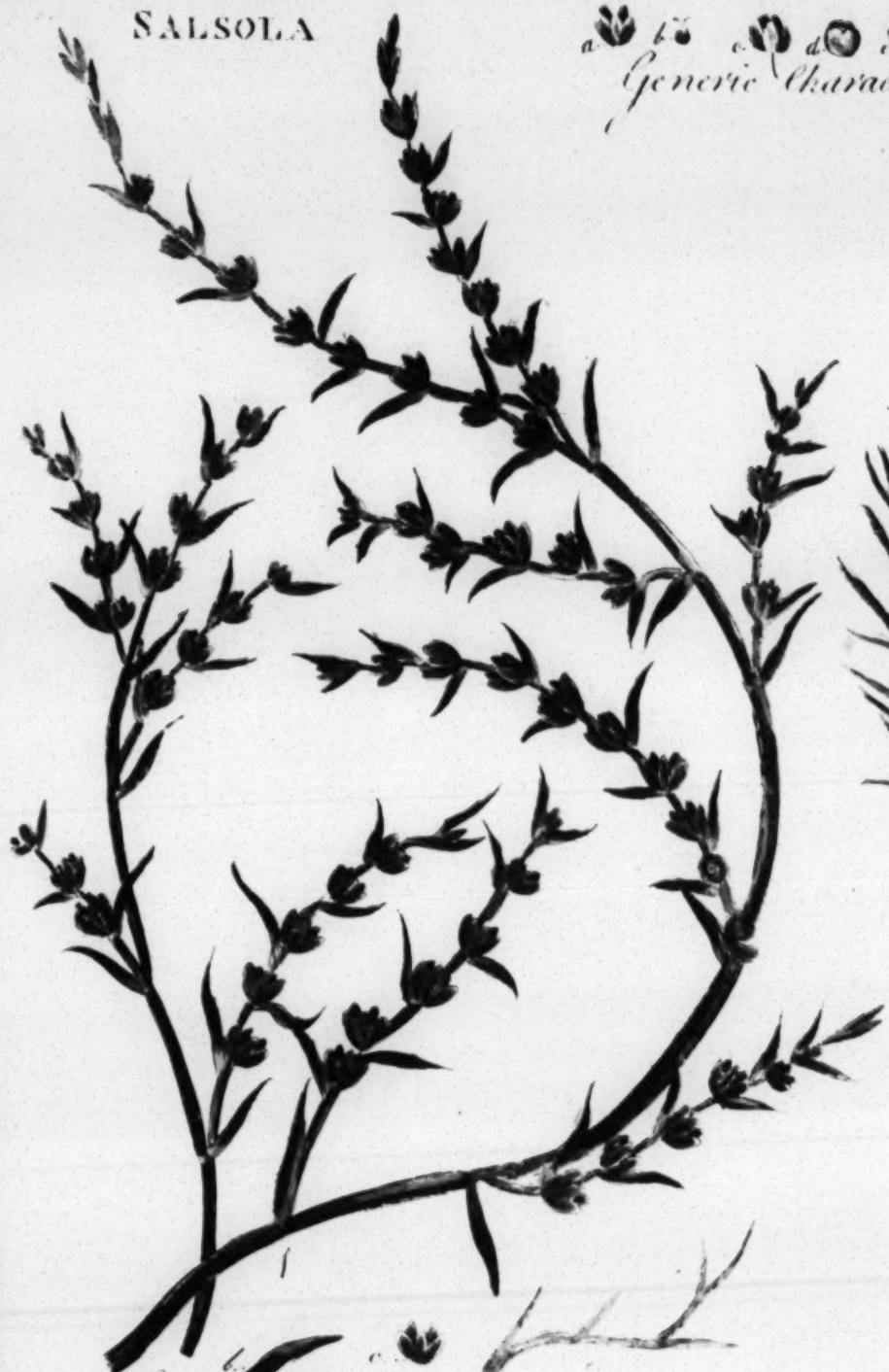


SALSOLA

  
Generic Character

GLASSWEED

*body*



*Shali Glassweed*



*Tragus Glassweed*



*Rose Glassweed*



*Sodane Glassweed*







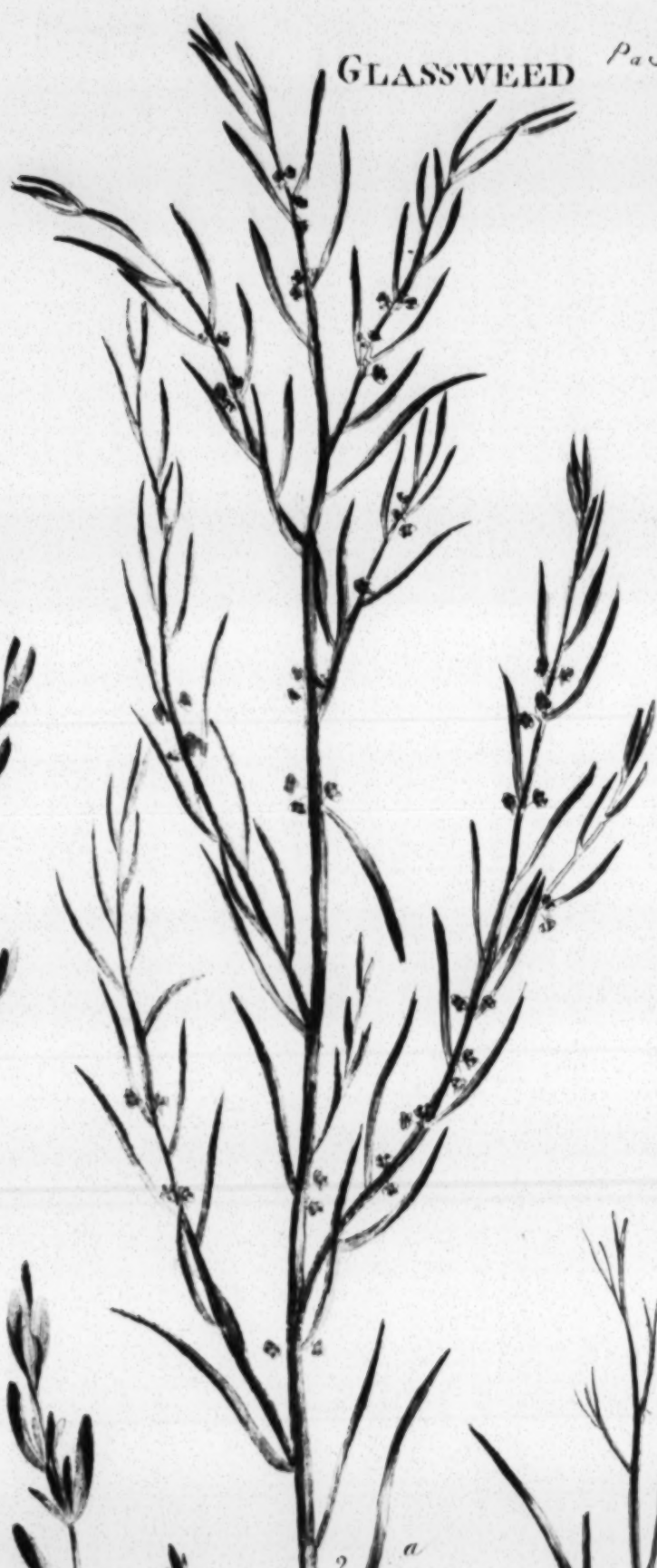
SALSOLA

GLASSWEED

Pa 35



*Cultivated Glassweed*



*Fall Glassweed*



*Salt Glassweed*



*Hairy Glassweed*







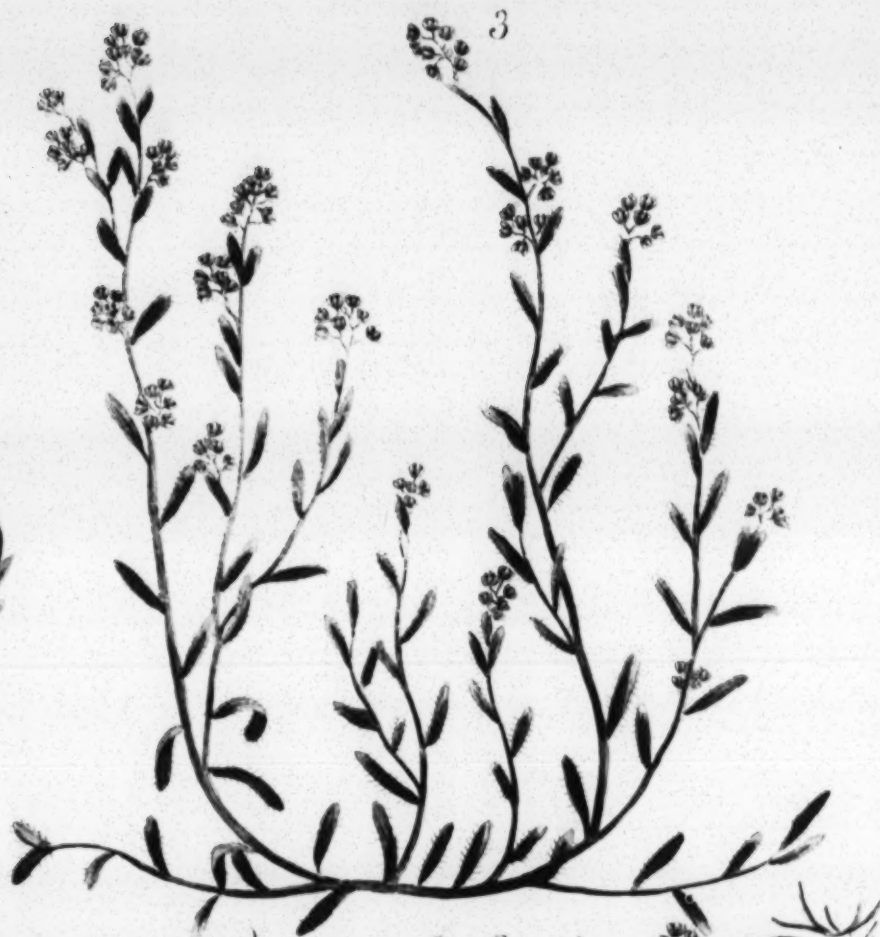
SALSOLA

GLASSWEED

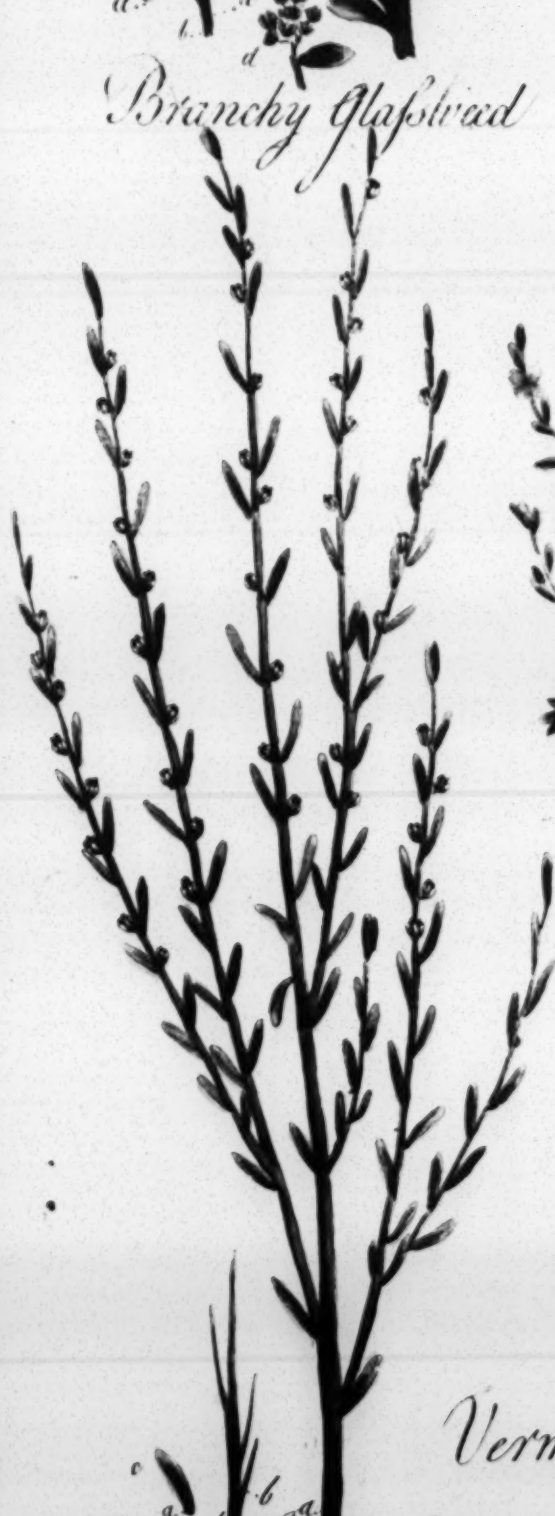
236



*Branchy Glassweed*



*Prostrate Glassweed*



*Woody Glassweed*



*Vermiculate Glassweed*



*Thorny Glassweed*





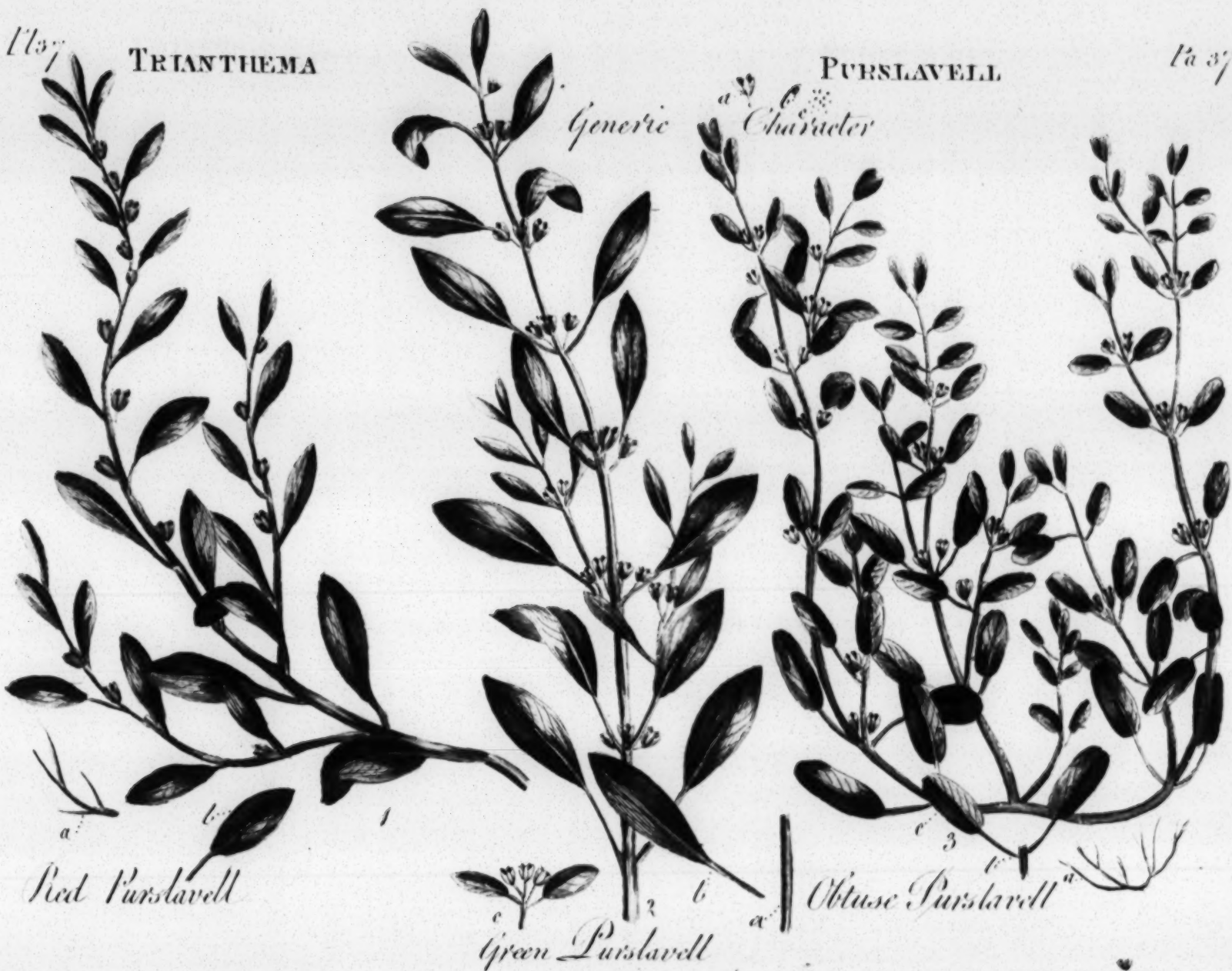


TRIANTHEMA

PURSLAVELL

Generic

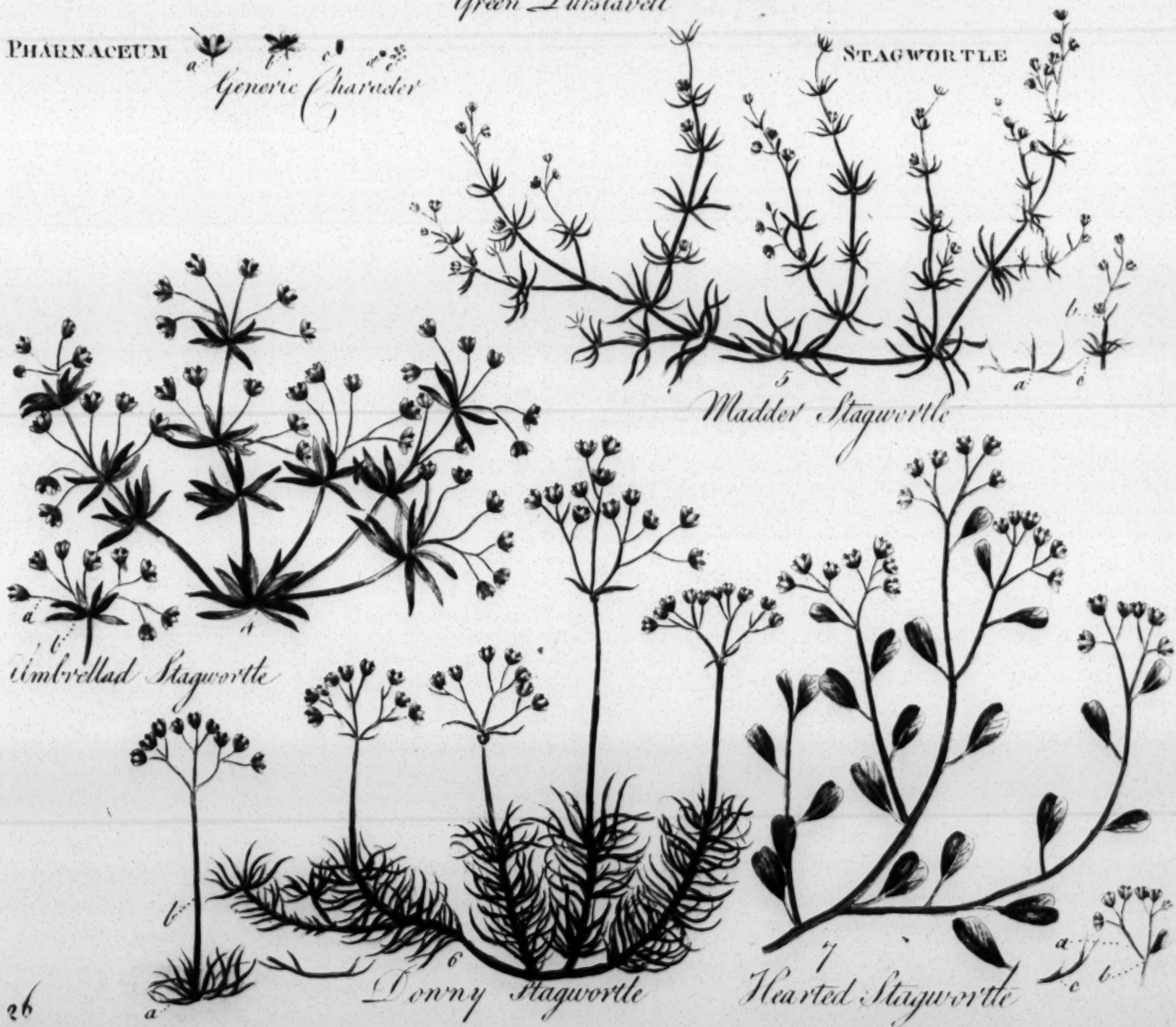
Character



PHARNACEUM

Generic Character

STAGWORTLE









*Generic Character.*









AMARANTHUS

AMARANTH

2



*Three Coloured<sup>2</sup> Amaranth*



*Short Spiked Amaranth*



*Mangostane Amaranth*

26



*Gangetic*

*Amaranth*







AMARANTUS

ADLARDII

Fig. 10



1  
*Deep Amaranth*



2  
*Leaf Amaranth*



3  
*Kitchen Amaranth*



5  
*Spine Amaranth*



4  
*Bite Amaranth*







AMARANTHUS

AMARANTH *Pa. 41*



*Knot Grass Amaranth*

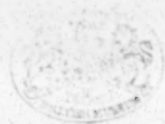
*Bastard Amaranth*



*Clustered Amaranth Bloody Amaranth*

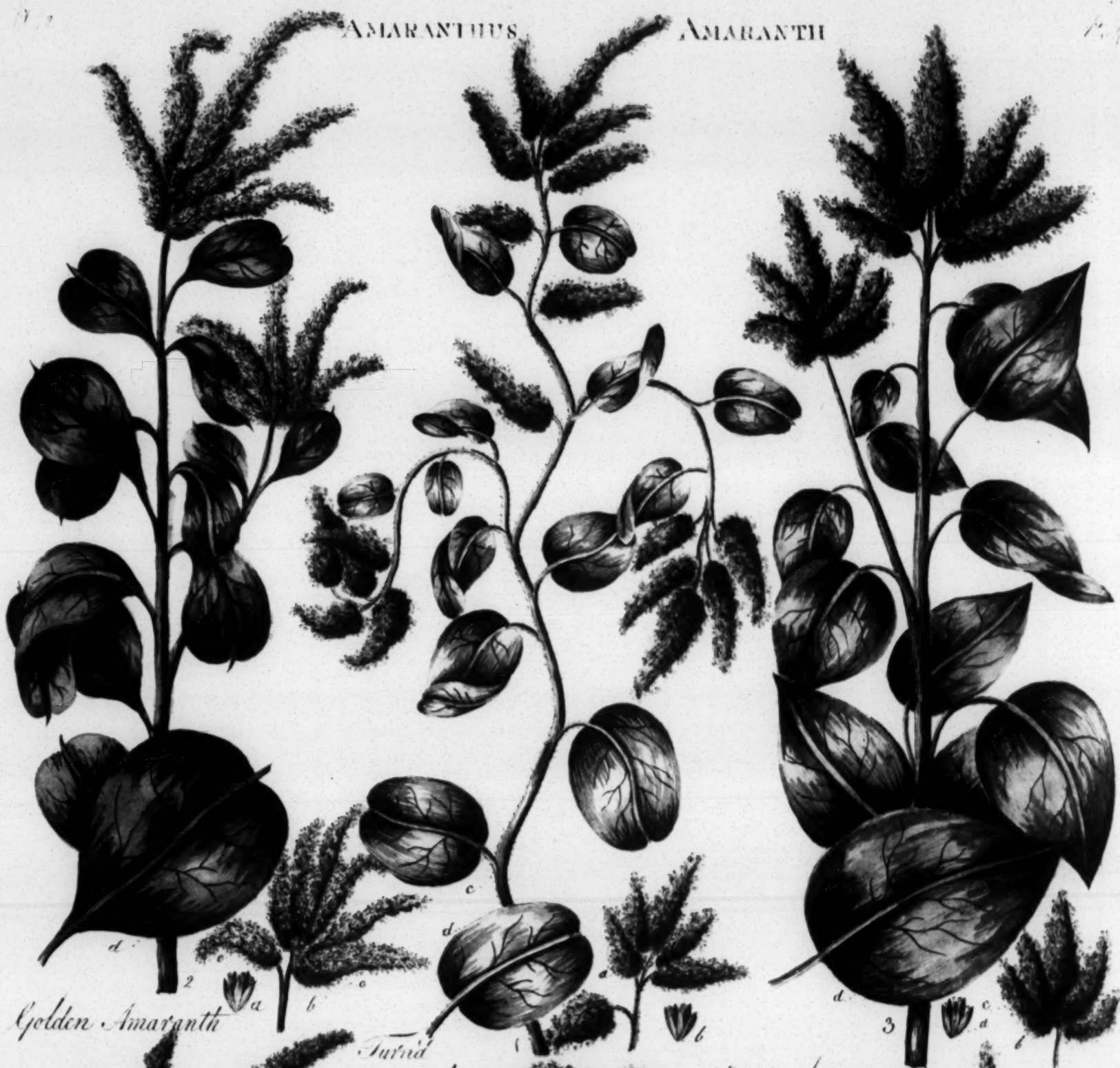


1871



1871





Golden Amaranth

Turnd Amaranth

Gloomy Amaranth



Bleeding Amaranth

Tailed Amaranth

Sharp Amaranth







ATRIPLEX

ORACH



*Perlain Orach*

*Halimane Orach*



*Glaucous Orach*



*Red Orach*



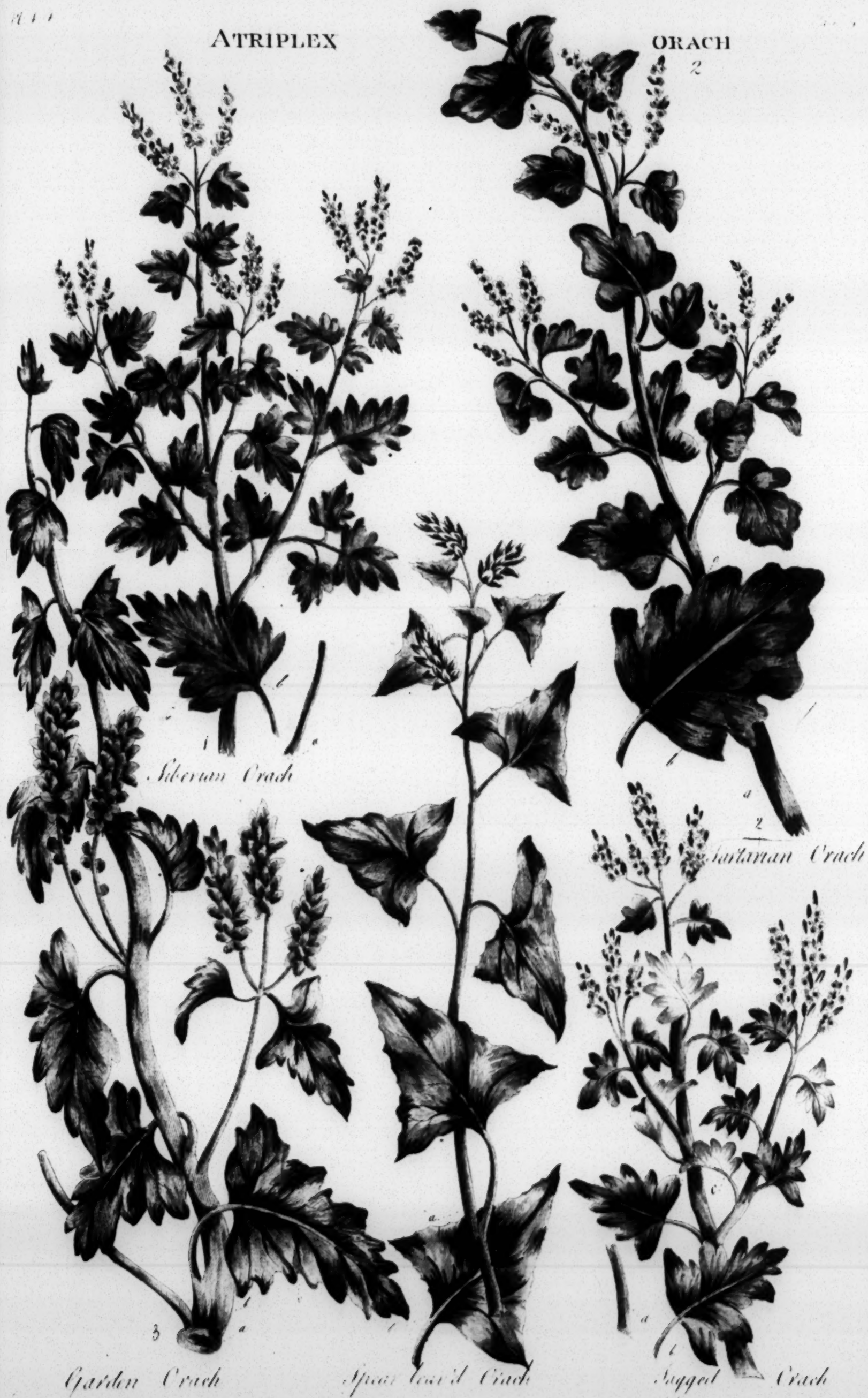




ATRIPLEX

ORACH

2



*Siberian Orach*

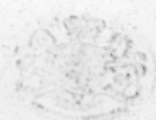
*Tartarian Orach*

*Garden Orach*

*Spear-leaved Orach*

*Saggel Orach*







3





2011





*Generic Character*











*Compact Rhubarb*



*Current Rhubarb*







ORIENTAL

DRAGON WEED

ACORUS

SWEET FLAG

*Generic Character*

*Generic Character*



HIPURIS

MARETAIL

*Water Dragonweed*

ZANNICHELLIA

WRACK ROD

*Generic Character*

*Generic Character*



*Common Maretail*

*Marsh Wrack Rod*







TYPIA

CATS TAIL

ZOSTERA

GRASS WRACK

Generic Character

Generic Character



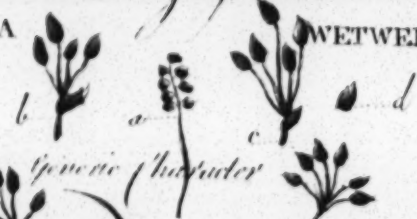
Marine Grasswrack



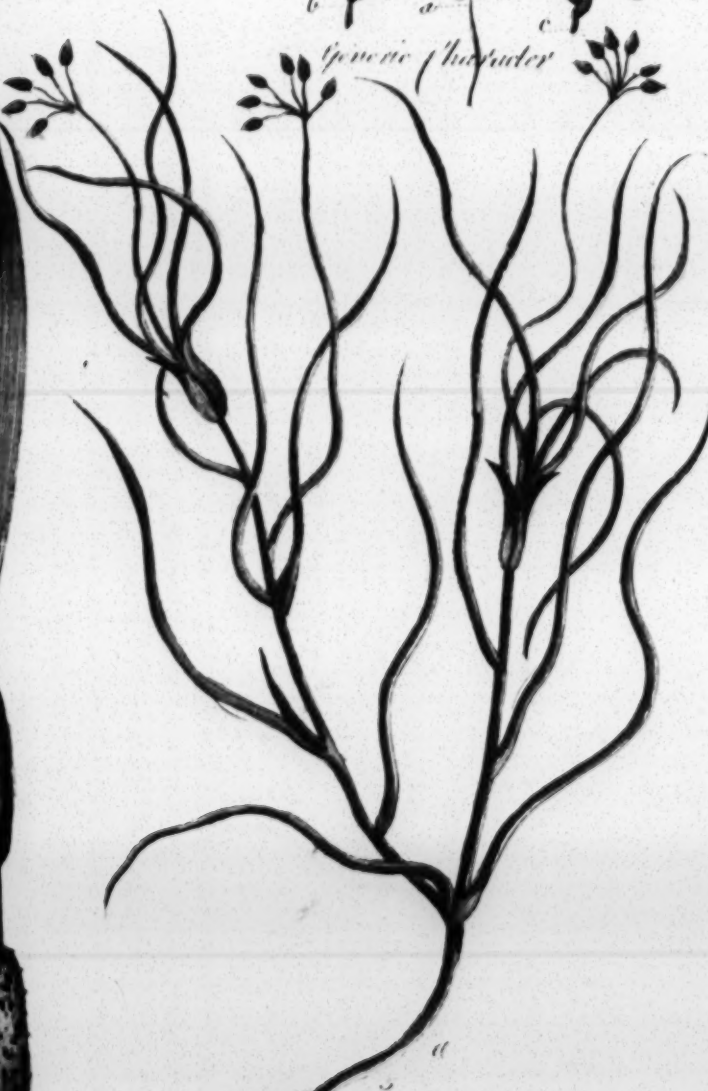
Oceanic Grasswrack

RUPPIA

WETWEED



Generic Character



Sweet Flag

Plantain Leaf Cat's Tail

Watercress







HYDROCHARIS

FROGBIT

VALLISNERIA

SCREW WORT

P. 50



*Generic Character*



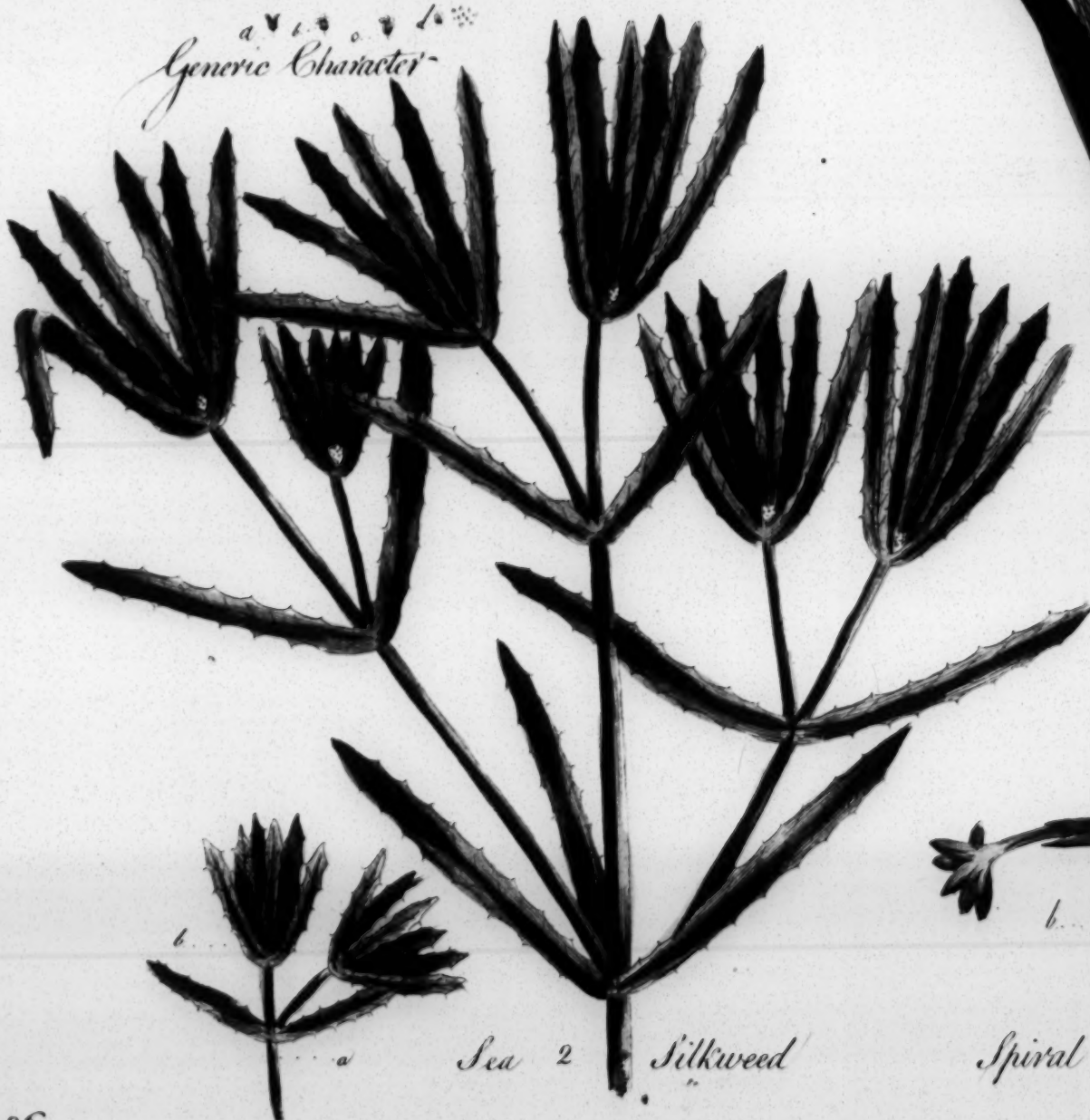
*Generic Character*



*Water Frogbit*

NAIAS SILKWEED

*Generic Character*



*Sea 2 Silkweed*



*Spiral Screwwort*







LEUCANTHEMUM



White Chrysanthemum

Generic Character

CHAKWEET



IRESINE

Generic Character

VIOLA

Generic Character



Sweet scented Rose Root

Black Chrysanthemum

PASSIONWEED



Passionweed







*Generic Character*









*Generic Character*

*Generic Character*

*Generic Character*



*Common Hemp*



*White Casserine*



*Common Hop*







1785

HEMPWEED

1785



*Generic Character*



*Hairy Hempweed*

SPINACHIA

SPINAGE



*Generic Character*



*Smooth Hempweed*



26 *Garden Spinage*



*Wild Spinage*







*a b c d*  
Generic Character



*Perennial Mercury*

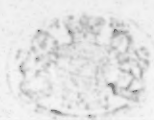
*Doubtfull Mercury*



*Annual Mercury*

*Downy Mercury*







Generic Character









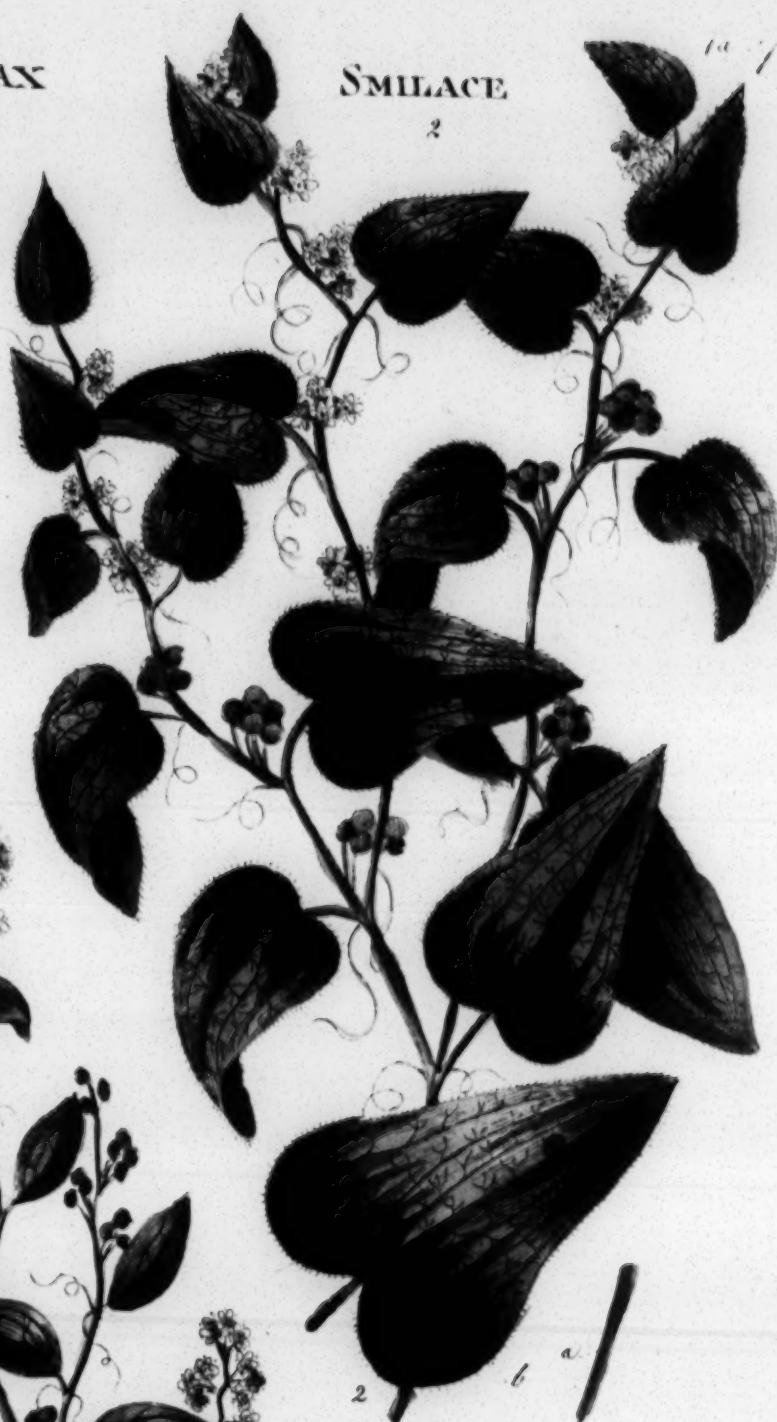
SMILAX

SMILACE

2



*Feeding Smilace*



*Square Stalked Smilace*



*Tender Smilace*

*Bastard China Smilace*



*Lancet Smilace*









DIOSCOREA

YAM











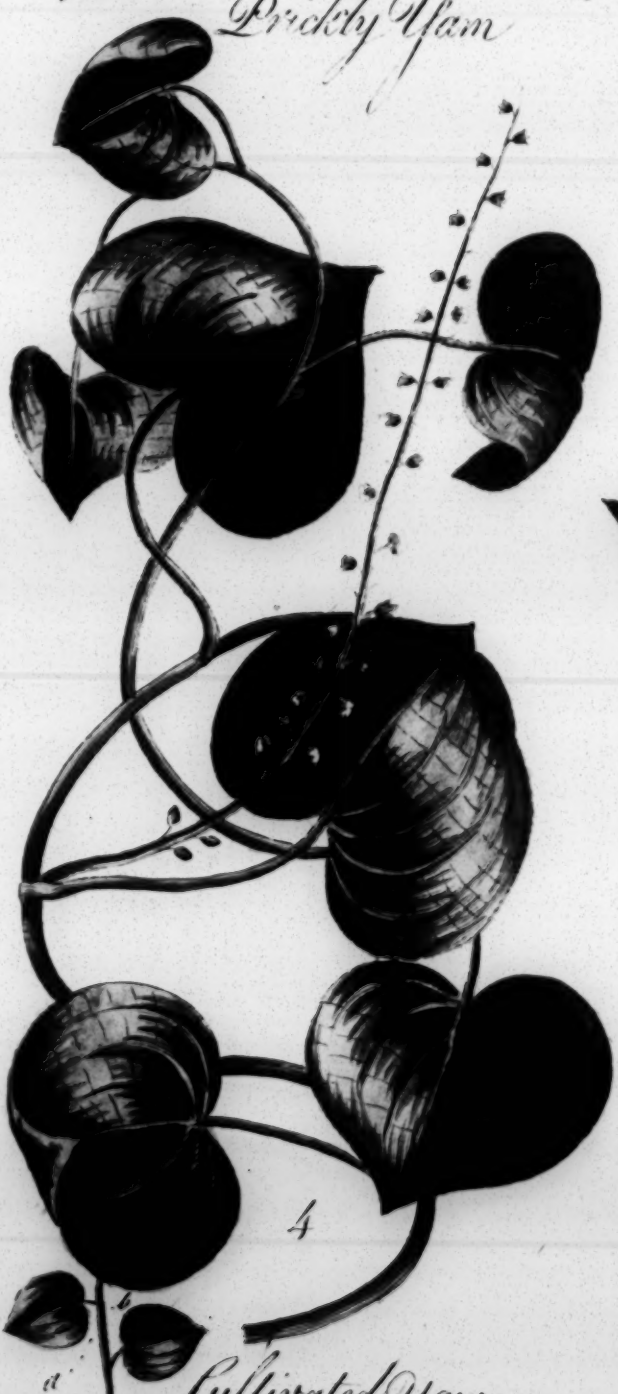
*Prickly Yam*



*Winged Yam*



*Bulbiferous Yam*



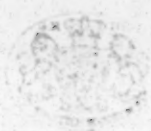
*Cultivated Yam*



*Downy Yam*

*Opposite Leaved Yam*







RAIANA

RAYWORT

a. b. c. d. e. f.  
*Genere Character*



*Heart leaved Raywort*



*Spear leaved Raywort*



*Five leaved Raywort*







